# THE CHEMIST AND DRUGGIST

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May, Roberts' Traveller.

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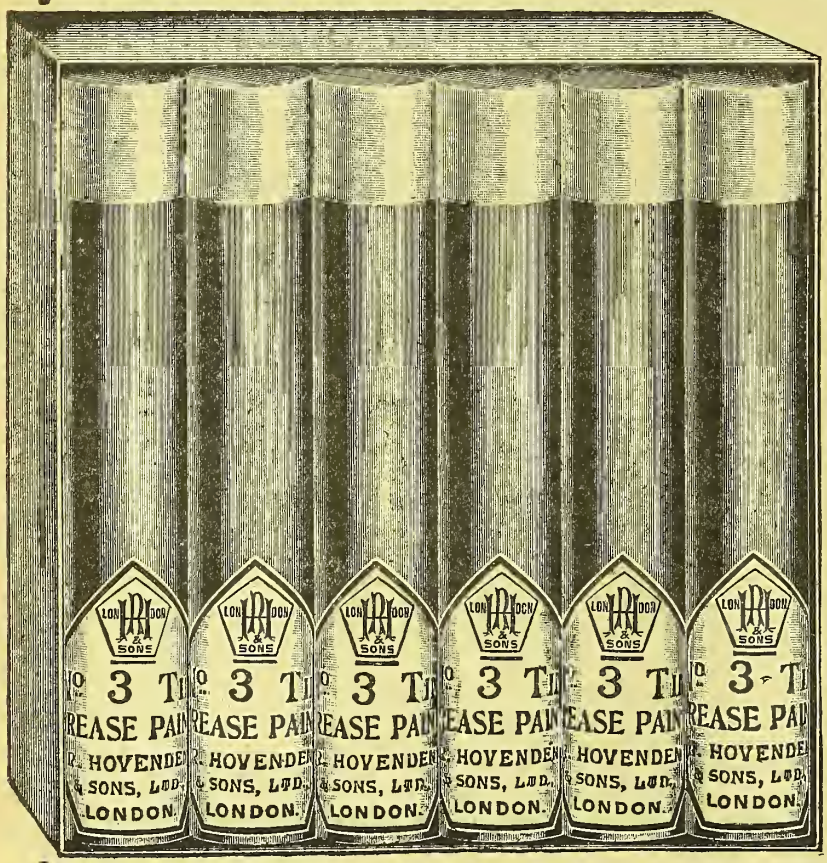


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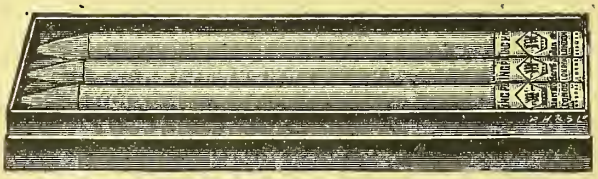

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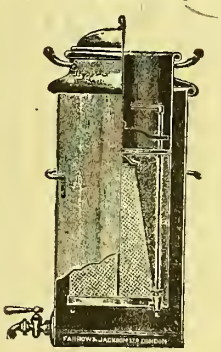

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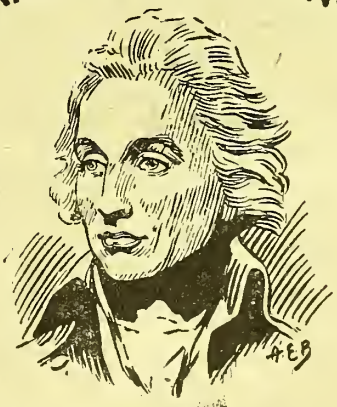

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## NOTICE !

*We strongly advise Chemists before purchasing their Toilet Specialities to send us particulars of their requirements, and complete Price List will be sent, or one of our representatives will call with full set of samples when in their vicinity.*

We are holding a large stock at remunerative prices

LESCOL PERFUMERY CO., Lomond Grove, Camberwell Green, LONDON, S.E. 5.

Telephone: 810 HOP. (Proprietors: The London Essence Co.) Telegrams: "VANILLIN, CAMBER, LONDON."

# BRIDGE BRAND

## PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

*R. W. GREEFF & CO. offer at lowest prices the following products manufactured in the United Kingdom, Allied and Neutral Countries*

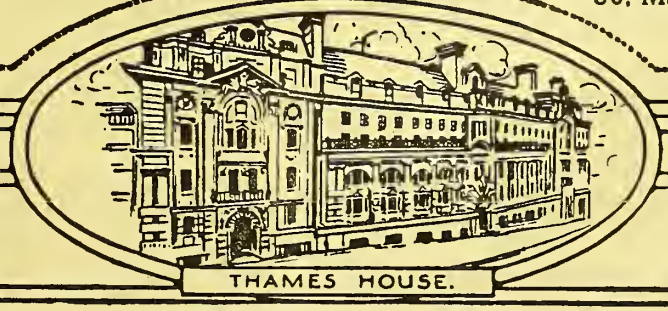
(WHOLESALE QUANTITIES ONLY)

Acetanilid
Acetyl Salicylic Acid
Amidopyrin
Barbitone
Benzoic Acid
Benzoate of Soda
Benzamine Hydrochlor
Beta Naphthol
Bromide of Ammonium
Bromide of Potassium
Bromide of Sodium
Chloral Hydrate
Cinchonine and Salts
Cinchonidine and Salts
Citric Acid
Cocain Hydrochlor and Puriss
Cream of Tartar
Creosote Carbonate
Formaldehyde
Gallic Acid
Guaiacol Carbonate
Heliotropin
Hexamine
Homatropine
Hydroquinone
Isarol (best Ichthyol substitute)
Lithia Carbonate
Lithol (Ichthyol substitute)
Mercurials
Methylene Blue Medicinal
Methyl Salicylate
Peppermint Oil
Phenacetin
Phenazone
Pyrogallic Acid
Potassium Sulpho-Guaiacolate
Quinidine and Salts
Quinine and Salts
Quinine Ethyl Carbonate
Salicylic Acid
Salicylate of Soda
Salol
Sugar of Milk
Tannic Acid
Tannin Albuminate
Terpineol
Terpine Hydrate
Theobromine
Thymol Crystals.
Vanillin

**R. W. Greeff & Co.** THAMES HOUSE, QUEEN ST. PLACE, LONDON, E.C.

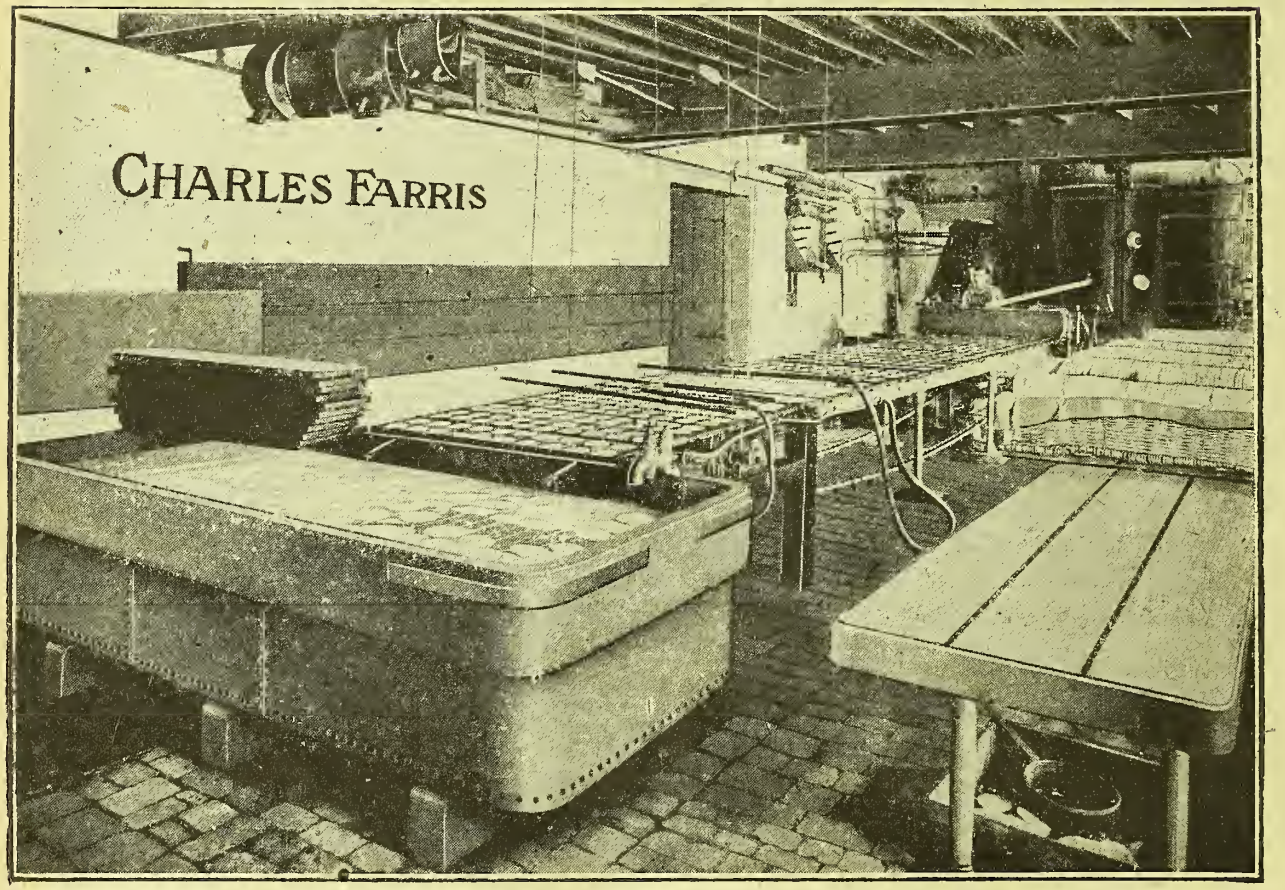
*MANCHESTER BRANCH:*
Lloyds Bank Buildings,
King Street.

*NEW YORK AGENTS:*
R. W. Greeff & Co.,
80, Maiden Lane.


THAMES HOUSE.

# Farris's Genuine Air-Bleached White Beeswax, B.P.

WELL KNOWN FOR EXCELLENCE AND PURITY NEARLY THREE QUARTERS OF A CENTURY.




*FARRIS'S GUARANTEED AIR-BLEACHED BEESWAX BEING MELTED INTO DISCS AND CARRIED ALONG AUTOMATICALLY TO THE COOLING TANK.*

**THE ONLY ACTUAL MANUFACTURER AND REFINER IN THE CITY OF LONDON OF**

CHARLES FARRIS BISHOPSGATE LONDON E.C. Telegrams: WAXINESS LED LONDON. ESTD 1845

**WAXES** OF EVERY KNOWN KIND

**OILS** OF EVERY DESCRIPTION

CHARLES FARRIS BISHOPSGATE LONDON E.C. Telephones: 9397 & 9398 LONDON WALL. ESTD 1845

**IMMEDIATE DELIVERY FROM STOCK.**

## CHARLES FARRIS, 71 Bishopsgate, London, E.C.

Works: HELMET COURT, BISHOPSGATE, E.C.

Warehouses and Stores: 91 & 93 BISHOPSGATE, and 12 WORMWOOD STREET, E.C.

TELEPHONE: CITY 7 PRIVATE BRANCH EXCHANGE
TELEGRAMS: ELEVEN CENT LONDON

S·MAW·SON & SONS LTD
7/12 ALDERSGATE STREET
LONDON
ENGLAND

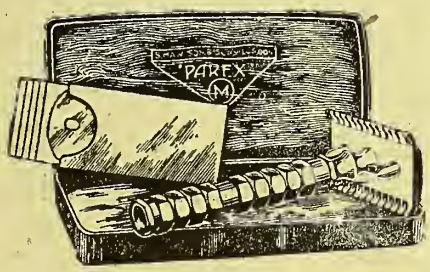
CABLES: ELEVEN LONDON
CODE: A:B:C 4TH & 5TH EDITION

# Maw's Page.

NUMBER 326. JANUARY 12, 1918.

# Two Good Safety Razors

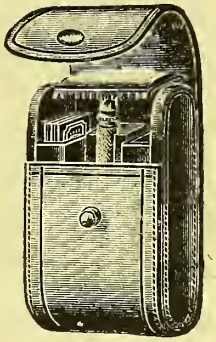
THE "PAREX." REGD.




Supplied in superior leather-covered spring-top metal cases in two qualities.

Electro-Plated · 7/9 each.
Gilt - - 9/· "

THE "INVINCIBLE."



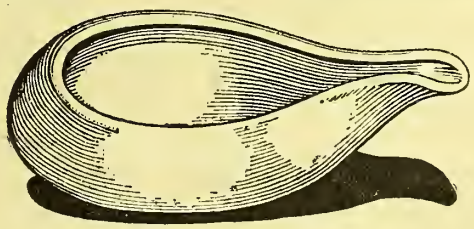
No. 4.

This new Safety Razor is supplied in a strong oval leather case with three blades. It is suitable for all classes of customers, and is worthy of its name "Invincible."

Per 36/· Dozen.

## PAREX FEEDING CUP.

This Feeding Cup is the cleanest and most hygienic article of its kind yet produced. Every part is accessible for cleansing, the old-style covered spout being entirely eliminated. Its



graceful oval shape makes it exceedingly easy to handle in use, convenient alike to both patient and nurse. Being made of earthenware it can be constantly sterilised, if necessary.

Price ... 5/3 per Dozen.

HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m. CLOSE AT 1 p.m. SATURDAYS.

THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK "FRAME FOOD"

ON P.A.T.A. LIST. *SHOWCARDS FREE.*

FRAME FOOD CO., Standen Road, Southfields, London.

WINCARNIS

Sells readily ALL the time.

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without* a licence.

THE FRENCH NATURAL MINERAL — WATER. —

VICHY-CÉLESTINS

DISORDERS of the LIVER, GOUT,

Diabetes, Rheumatism, Gravel, &c.

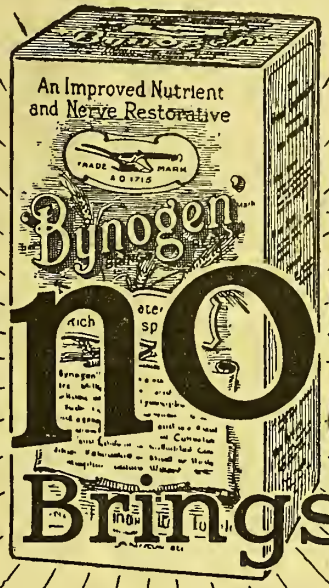
VICHY-ETAT PASTILLES.

Two or three Pastilles after each meal facilitate Digestion.

CAUTION.—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the SOLE AGENTS: INGRAM & ROYLE, Ltd., Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

PROPERTY OF THE FRENCH GOVERNMENT.

The Improved Casein-Glycerophosphate Food




# 'Bynogen'

Trade Mark

## Brings Health

### An Easily Digested Nerve Food Rich in Phosphorus

*Composition of "Bynogen."*

"Bynogen" is a combination of pure Milk Protein, 75 per cent., and specially prepared Dextrin-Maltose, 20 per cent., with 2 per cent. each of the Glycerophosphates of Soda and Lime, and 1 per cent. of Glycerophosphate of Magnesia.

*Uses of "Bynogen."*

"Bynogen" is indicated in all Enfeebled Conditions, in Convalescence after Severe Illness, Mental and Nervous Exhaustion due to worry or overwork, Insomnia, Physical Fatigue, Wasting Diseases, Anæmia, Digestive Troubles, etc.

"Bynogen" is very helpful to Nursing Mothers for overcoming the strain caused by breast feeding.

Minimum Retail Prices: 1/9 and 3/- per bottle.

Gross Wholesale Prices: 17/- and 29/- per doz. bottles respectively.

### A Concentrated Nutrient and Restorative

*Advantages of "Bynogen."*

"Bynogen" possesses a most attractive flavour and thereby overcomes the objection hitherto experienced in other somewhat similar products.

"Bynogen" strengthens digestion, improves nutrition, and does not cause constipation.

"Bynogen" is delicious when sprinkled on puddings, toast, etc. It mixes readily with milk and other fluids, or it may be eaten plain if desired.

*Profit on "Bynogen."*

"Bynogen" yields a profit on return of 25% monthly a/c terms. When "Bynogen" forms part of a £5 carriage paid general order for the "Allenburys" Specialities the profit on "Bynogen" is increased to 27½%

SAMPLES AND DESCRIPTIVE LEAFLETS FREE ON REQUEST

**Allen & Hanburys Ltd.** Lombard St., E.C. 3.

# LIQUID GLUCOSE

$SO_2$ Free.

NO BLUEING USED.
Specially pure for
Pharmaceutical Preparations.

THE
**MANBRÉ SACCHARINE Co., Ltd.,**
HAMMERSMITH, LONDON, W. 6.

# CARAMEL Colouring

*(SACCH. UST.)*

for ALL INDUSTRIAL and FOOD PURPOSES.

**PERFECT PURITY.**
**HIGHEST COLOUR VALUE.**

***PROMPT DELIVERY.***
Supplied to Manufacturers & Wholesale buyers only.

*Particulars, Samples & Quotations from*

**E. J. HAY & CO.**
**Caramel Works,**
**ESSEX WHARF, LIMEHOUSE, LONDON, E. 14**
**and**
**104 SACKVILLE ST., MANCHESTER.**

# Recommend it for Convalescence

Doctors prescribe Turtle Soup in all cases where the patient cannot retain any other nutriment.

**FREEMANS**
**REAL TURTLE EXTRACT**

is the real meat of selected West Indian Turtles, compressed into handy tablets; it provides all the delicacy and nourishment of soup made from fresh killed turtles, and is quickly prepared as it requires nothing but boiling water.

For hospitals, nursing and convalescent homes it can be strongly recommended as the best, safest and handiest invigorator obtainable.

The trade terms are particularly favourable, and particulars can be obtained by writing to
**The Watford Mfg. Co. Ltd.**
**Delectaland, WATFORD**

Freemans FOOD PRODUCTS Watford S.A.A.

# PURE DRINKING WATER.

**The Pasteur Chamberland Filter.**

***OFFICIAL GOVERNMENT STATEMENT:***

Wherever the **PASTEUR FILTER** has been applied, **TYPHOID FEVER** has disappeared.

**WRITE FOR LIST B.**

SOLE MAKERS:
**The British Pasteur Chamberland Filter Co.**
***5 WHITE STREET, FINSBURY, LONDON, E.C. 2.***

The Finest Quality Aerated Waters are made only with the Finest Quality ESSENCES

# Boake Roberts'

Soluble Essences are of the finest quality and being extremely concentrated are most economical

| | |
|---|---|
| **Lemon** | **Ginger Ale** |
| **Orange** | **Stone Ginger (Cloudy)** |
| **Ginger** | **Clear Ginger Beer** |
| **Raspberry** | **Kola Champagne** |
| **Strawberry** | **Lime Juice and Soda** |
| **Pineapple** | **Lemon Squash Vanilla** |

**A. Boake Roberts & Co. Lᵈ**
**Stratford, London**

Every Soldier on home or active service, every Sailor in the Navy or Merchant Service, every fighting man on land or sea, in the air or under the ocean, needs a

# THERMOS

many times **every** day. Are you doing your share in supplying this immense demand? If not, you are losing business and profits. It is no platitude to say that **THERMOS** sells itself; it is a fundamental truth. It is a psychological force you can put into motion to increase your turnover if you feature the genuine **THERMOS** in your windows.

*CATALOGUES, ETC., ON REQUEST.*

**THERMOS, LTD.**

Byron House,
2 & 4 Finsbury Street,
LONDON, E.C.2.

Now is the time to

# PUSH

ANZORA CREAM. It will delight a man to use, whatever his age, or whether he be in khaki or 'civis.' Anzora will keep the most uncontrollable hair in place without the aid of oil or grease, and it is a splendid tonic for hair, roots and scalp.

For Dry Scalps you should recommend Anzora Viola which contains a little Anzora Oil of Violets.

*Beware of substitutes—they are apt to leave flaky deposits and are sure to disappoint customers.*

Trade Terms:
11/6 per doz. Retailed at 18/-
19/6 ,, ,, 30/-

Anzora Perfumery Co.
28,32,34 Willesden Lne,
London, N.W. 6.



# LOFTHOUSE & SALTMER, Ltd.

**Wholesale & Export Drug Merchants,**
**Manufacturing Chemists**

**HULL**

INVITE the Trade to take up the following valuable P.A.T.A: Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

| P.A.T.A. | Protected Retail Price. | Dozen Net. |
|---|---|---|
| *LOSALL'S SALT (well advertised), tins | 9d. | 6/6 |
| * " " " " " | 1/6 | 13/- |
| * " " " " bottles in cartons | 1/6 | 13/- |

**Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

**Owing to the great increase in the cost of raw material and containers for our Losall's Salt, we are compelled to raise the trade prices, but the retail protected prices are proportionately increased.**

**LOSALL'S COMPOUND SULPHUR SOAP.**

| | | |
|---|---|---|
| A valuable emollient medicated skin soap, especially suitable for use in Eczema | 1/6 | 13/6 |

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.



BEETHAM'S

# "LAROLA"

(Registered)

**Is the Skin Tonic for 1918.**

***It is effective.***
***It is attractive.***
***It is price-protected.***
***It is well-advertised.***
***It sells readily.***
***It bears a good profit.***

## HAVE YOU OUR SHOWCARD?

**THIS IS WHAT THE "C. & D." SAYS OF IT:**

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

**M. BEETHAM & SON, CHELTENHAM.**



For FOUNTAIN PENS and all Pens the Best.

# Dichroic Ink

Makes Writing Easy

*Proprietors:*

*Bewley & Draper, Ltd., Dublin.*

**Increase your Profit on Proprietaries by pushing WHITE BAND Lines, which show 100 per cent. Profit.**

# CHILBLAIN OINTMENT

**In two kinds:**
**For Broken Chilblains.**
**For Unbroken Chilblains.**

A Product of Real Efficiency.
Very Smartly Got-up.
A Ready Seller.

Per gross .... .... **42/-**

# LANOLINE

**The Right Colour!**
**The Right Quality!**

Actually Superior to the original German product.

In smart display cartons, Per gross **45/-**
**Retail at 7½d.**

Also in the same style:—

# COLD CREAM

**A Very Fine Quality** .... .... .... .... Per gross **45/-**

*These and other Lines can be obtained on Bonus Terms.*
*Write for Complete Lists of Winter Lines & Bonus Lists.*

**WHITE BAND MFG. CO., LTD. SOUTH CROYDON.**

# SAM^L. LAMBERT & CO.,

14 MINCING LANE, LONDON, E.C.

**Importers and Exporters.**

**First hands for all**

**Estd. 1870.**

# CRUDE DRUGS & ESSENTIAL OILS.

*A few Specialities :—*

*ARABIC GUMS, CASCARA SAGRADA, ERGOT, CITRIC ACID, COD LIVER OIL, CREAM OF TARTAR, GLYCERIN, HONEYS, MESSINA ESSENCES, OLIVE OIL, PEPPERMINT OIL, QUININE, QUICK-SILVER, RHUBARB, SARSAPARILLA, SHELLAC, TURPENTINE.*

***Sole Agents for :***

Oils : Lemon, Bergamot, Orange ; Terpeneless Oils : Lemon, Bergamot, Orange.—*Fratelli de Pasquale & Co., Messina.*
Bay Rum and Bay Oil.—*Bornn, St. Thomas.*
Essential Oils, Drugs, Chemicals, &c.—*National Aniline & Chemical Co., New York.*

# DODGE & OLCOTT CO.,

20 MARK LANE, LONDON, E.C.

**THE "D & O" BRAND**

*is the "Standard of Quality" for*

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.
BALSAMS of Copaiba, Peru, Tolu.
TONKA BEANS, Angosturas.

'Phone: CITY 2468.

Telegrams: "EGDARF, FEN, LONDON."

# ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE YET PRODUCED

IS MANUFACTURED BY

## THE PHARMACEUTICAL LANOLINE CO.

**7 Carnwath Road, Fulham, London, S.W.**

WHO INVITE INQUIRIES.

**DECOLTENE** The liquid hair remover

**Dinkie** The Dainty Deodorant

The intelligent depilatory. Simple, safe and effective. Pleasant and harmless. Invaluable during the décolleté vogue. Daintily packed.

An attractive line that enjoys good sales. A greaseless Cream, that takes the odour out of perspiration. Daintily packed in opal jars.

Ask your wholesaler. Both articles largely advertised.

*SATISFACTION GUARANTEED OR MONEY BACK.*

TRADE TERMS.

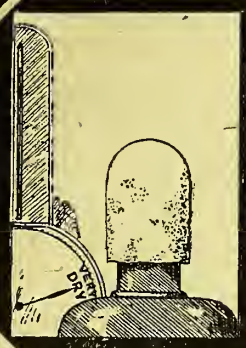
DECOLTENE. Advertised and min. Retail price **3/9**
Trade 30/- per doz.

DINKIE. Advertised and min. Retail price **2/6**
Trade 20/- per doz.

5% cash with order. Carriage paid on £1 lots. Particulars on request.

**ROBARTES, LTD.,**
128 JERMYN STREET,
LONDON, S.W.1
Telephone . . Gerrard 3672.






Put on Wet to-night *it's going to be Dry* in the morning. SELF-FIXED, AIRTIGHT & SPIRIT-PROOF if it is a

**SEMREH**

**BOTTLE CAP**

May we send you details?

**THE VISCOSE DEVELOPMENT CO., Ltd.**
**BROMLEY, KENT.**

**"Newbery's"**
FRANCIS NEWBERY & SONS LTD

# Dental Cream de Luxe.

A Tooth Paste for refined tastes. Put up in most artistic cartons in the following flavours :—

**Formalin, Mint,**
**Thymol,**
**Oxygen,**
**Areca.**

**Price 7/- per doz.**

Will attract the best class of customer to your establishment.

**Charterhouse Square,**
**LONDON, E.C.**



FOR LARGE BUYERS.

# Tooth Powders

Bulk or Packed.

Also Vanishing Creams, Brilliantines, Toilet Paraffins, Lime Creams, Shaving Sticks, Dental Creams, Shampoo Powders, and All Toilet Goods.

***LOW PRICES for HIGH QUALITY.***

**STOKES & CO., Ltd.**
Manufacturing Chemists and Perfumers,
**31-35 Lower Castle, BRISTOL.**
(5)

# Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO.
LIVERPOOL - - - MANCHESTER

# Salvo Petrolia

**the perfection of Petroleum Jelly**

in qualities, white, lemon, yellow and golden, for pharmaceutical purposes.

*MANUFACTURED SOLELY BY*

**The Dee Oil Company, Ltd.**

**Delta Works . Bootle . Liverpool.**

Packed in barrels, kegs, and smaller packages according to requirements.

Inquiries are solicited for this article of **BRITISH MANUFACTURE,** and buyers may rely that for quality and price it will meet any competition.

Other Grades

**Petroleum Jellies, White Bases, &c.**

Samples and prices on application.

**"OLEUM DEELINÆ,"** a certain cure for Eczema.

'Phone: 186 Bootle. Wires: "Cestrian Liverpool."

We offer

# WAXES

**PETRO. JELLY**

**LIQUID PARAFFIN** B.P.

**WHITE OILS**

Send us your inquiries.

**J. J. FRANSES & SONS,**
LIMITED,
80a Southwark St., LONDON, S.E. 1.

LABORATORY
OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.
LONDON AGENTS:
WILCOX, JOZEAU & CO., 49, Haymarket, S.W.

CHAPOTEAUT'S
CAPSULES of
PHOSPHOGLYCERATE
of LIME.
THE BEST TONIC FOR
FORTIFYING AND BUILDING UP
THE NERVOUS SYSTEM.
*Sold by all Chemists.*
Wholesale: 8, Rue Vivienne.
PARIS.

MORRHUOL CHAPOTEAUT

CAPSULES
MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.
*It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.*
SOLD BY ALL DRUGGISTS.

CHANDRON'S
DROPS
(Gouttes des Colonies)
A harmless antiseptic
preventative against CHOLERA
FERMENTATION - INDIGESTION
& other intestinal disturbances.
SOLD BY ALL CHEMISTS

LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.

ESTABLISHED 1839.

ROBINSON & SONS, LTD.

BOXES FOR ALL PURPOSES

BOXMAKERS TO THE CHEMIST TRADE

SQUARE ROUND FOLDING

CHESTERFIELD & LONDON

TIN FOIL

BRITISH MAKE

Highly polished foils—printed, lacquered, embossed or plain. Guaranteed free from lead for tobacco, cigarettes, foodstuffs, etc. In sheets or reels—large or small quantities

Also collapsible tubes in pure tin, pure lead or lead-coated with tin for rubber solution, artists' colours, tooth pastes and other toilet preparations.

SHAVING STICK CASES. SCREW-CAPS, ETC

Venesta Ltd.

1, GREAT TOWER ST.

LONDON

A BRITISH PRODUCTION

TOOTH "OZOMINT" PASTE

*Prepared with Chlorate of Potash.*

Allows you a handsome protected profit. We co-operate with your Dentist friends to increase sales. Striking Showcards, Cut-outs & Literature supplied. Bonus for Window shows. Will keep in any climate.

**CUXSON, GERRARD & CO., LTD., Manufacturers, OLDBURY.**

EXPORT INQUIRIES SOLICITED.

SELLS 7½d. P.A.T.A.

**"PERRO" PROFIT**

**NAIL STONE**

GIVES 66⅔% MINIMUM.

Is splendid, and so is the Nailstone itself. Sells anywhere and at any time, especially popular near Munitions Works just now. We are still giving with

EVERY **3 DOZEN ORDER CARRIES THE FINE BONUS OF ½ DOZEN**

but may (we hope not) have to withdraw this offer any moment. It truly does accomplish the same Nail Culture work for less than 7½d. that a manicurist would charge half a guinea. Beautifully packed

"PERRO" SALES WERE BUILT ON MERIT ALONE. THUS IT IS SALES ARE CONTINUOUS.

**CHRISTY'S,** OLD SWAN LANE, LONDON, E.C. 4.

"PERRO" IS BRITISH THROUGH & THROUGH. "PERRO" FEARS NO COMPETITOR, FOREIGN OR OTHERWISE.

## Important Notice!

**NEW AND REVISED PRICES.**

**Dr. ROOKE'S**

**Solar Elixir** **Oriental Pills**
**Rheumatic Lixile** **Golden Ointment**

**CROSBY'S**

**Balsamic Cough Elixir** **"Kre-Ozone"**

| | | | | |
|---|---|---|---|---|
| Size ... ... ... | 1/3 | 3/- | 5/- | 12/- |
| Minimum Retail Price... | 1/3 | 3/- | 5/- | 12/- |
| Wholesale (per dozen) ... | 12/6 | 30/- | 49/6 | 122/6 |

DISCOUNT: 10 per cent. on parcels of £5 and upwards, cash at 14 days. An extra discount of 1¼ per cent. is allowed for CASH IN SEVEN DAYS. (These terms will be strictly adhered to.)

Carriage paid on £5 parcels. Packages free.

In view of the extensive demand created for these products by our new advertising campaign, and in order that your customers shall secure these articles in their best possible condition, the Proprietors give notice that they are willing to exchange any old or soiled stock for new stock.

**NOTE.—Dr. Rooke's Medicines are on the P.A.T.A. Protected List, and must not be sold below the above-mentioned prices.**

Dr. CHARLES ROOKE, LIMITED, Proprietors, LEEDS.



*Best House For*

**CORKS. ENEMAS.**
**TEATS. VALVES.**
**H. W. BOTTLES (Rubber)**
**Do. (China)**
**SOOTHERS. BOTTLES.**

*Of which Good Stocks are held, ready for immediate delivery.*

**THOMAS SWALES,**
:: *Sundryman* ::
24 BUTTS COURT & 89 ALBION STREET, **LEEDS.**



# VANILLIN

FINE WHITE CRYSTALS. PURE 100 PER CENT.
Obtained from Clove Oil. Packed in 7 lb. tins.
*PROMPT DELIVERY FROM STOCK IN LONDON.*

FRED^K BOEHM LIMITED
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SCOTTISH OFFICE: 140 West George Street, Glasgow.



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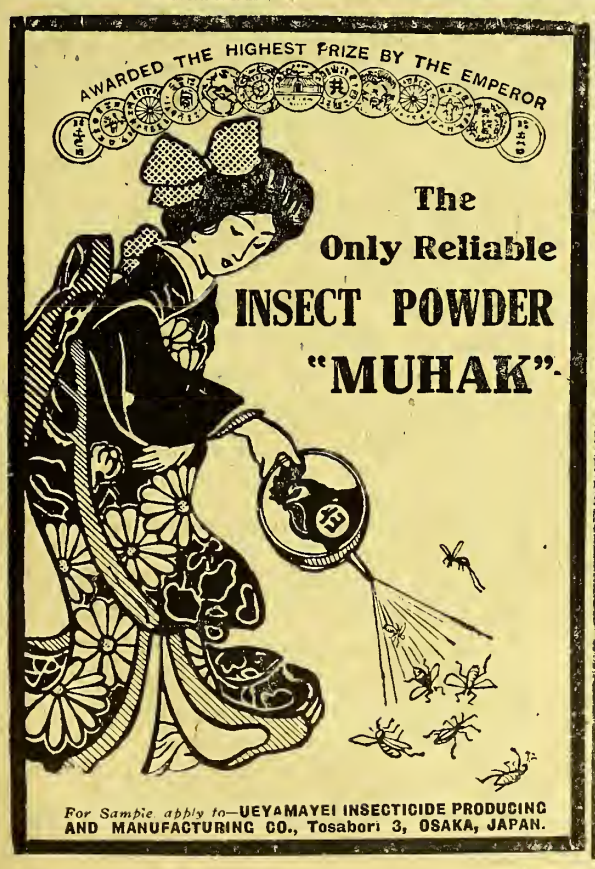




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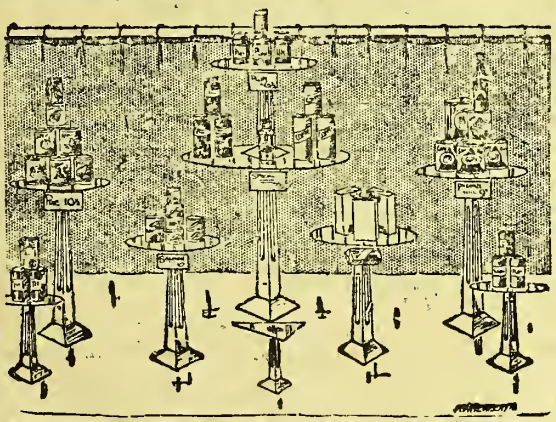

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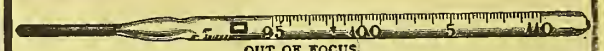

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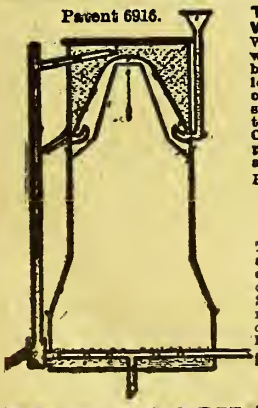

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The colour of the genuine labels is copied very closely in the imitation. The front labels, here shown, are printed in red on yellow, and the back labels in English in black on blue grey, closely matching the genuine labels in both cases.

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In the imitation the Quinine Bisulphate is mixed with over 11% of **TALC**—in the genuine the Quinine is pure and there is **NO TALC**.

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I HAVE received instructions from the Taoyin of Kweichi in reference to this case, and I have written to the local Chamber of Commerce asking them to order the Tung Hwa Dispensary to have all the labels removed from the bottles and have them destroyed, and this they have accordingly done. As I am now again in receipt of directions from the Envoy for Foreign Affairs instructing the issuing of a proclamation, I hereby proclaim that although the Tung Hwa Dispensary had not actually imitated the trade mark of the other firm in selling Quinine tablets, as reported by the local Chamber of Commerce, I am afraid that ignorant people may, in order to gain a profit, substitute this for the high quality product issued by the other firm. Therefore it is severely forbidden, and anyone daring to infringe this proclamation will be heavily punished.

*(Signed)* WONG LI-FU,
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G. 819

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**A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.**
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**Branches:** MELBOURNE AND SYDNEY, AUST.

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# Coming Events.

**Tuesday, January 15.**

*Ealing Pharmacists' Association*, Buol's Restaurant, Ealing, W., at 9 P.M. Mr. Hugo Wolff on "Current Pharmaceutical Topics."

**Wednesday, January 16.**

*Sheffield Pharmaceutical and Chemical Society*, Literary and Philosophical Society's Rooms, Church Street, at 8.30 P.M. Mr. H. Brown on "Local Organisation," and Mr. G. H. Leighton on "Trade *versus* Profession."

*Liverpool Chemists' Association*, Royal Institution, Colquitt Street, at 8 P.M. Paper on "Eccentrics," by "One of Them." The speaker, who is a well-known member of the Liverpool Association, is to deal with "Life Studies" met with in the course of his profession. The presentation of the trade to Mr. Wm. P. Evans on his recent marriage will be made.

*Manchester Pharmaceutical Association*, Chess Club Room, 65 Market Street, at 3 P.M. Mr. J. W. Deakin on "Whence? Whither?". (Postponed from January 9.)

*Harrogate Pharmaceutical Association*, Royal Baths, at 4 P.M. Tea and inspection of the Baths.

**Thursday, January 17.**

*Western Pharmacists' Association*, Restaurant Frascati, Oxford Street, London W. at 3 P.M. Mr. T. E. Lescher on "Controlled Materials."

*West Ham, East Ham and Metropolitan Essex District Association of Pharmacists*, Earlham Hall, Forest Gate, London, E., at 3 P.M. Whist-drive in aid of the Orphan Fund of the Pharmaceutical Society. Tickets (2*s*. 6*d*. each, two 4*s*. 6*d*.) from Mr. Alex. Catto, 49 Cranbrook Road, Ilford.

# European War News.

**Personalia.**

CADET GORDON HARVEY, son of Dr. James Harvey, Tranent (who is also a chemist and druggist), has been gazetted to the Royal Scots.

MAJOR G. B. JOHNSON, Royal Field Artillery, has been awarded the D.S.O. for gallantry. Major Johnson is a junior partner in J. H. & S. Johnson, wholesale druggists, Whitechapel and Church Street, Liverpool.

SECOND-LIEUTENANT J. W. DUNGWORTH, who has recently been gazetted to the Royal Garrison Artillery, enlisted in November 1914 from the Spital Hill, Sheffield, branch of Boots, Ltd., and has seen service at Ypres and in the Somme battle.

SERGEANT WILLIAM LLEWELYN BAILEY, who has been gas-instructor in France and elsewhere, is home on leave prior to taking a commission. Sergeant Bailey is F.C.S., pharmacist, and the son of a pharmacist, Mr. Henry Bailey, Matlock Bank, and in civil life was dispenser to the Sheffield Board of Guardians.

PRIVATE A. J. PADLEY, King's (Liverpool Regiment), who had been reported missing after an engagement on November 30, 1917, has been able to inform his father, Mr. F. R. Padley, chemist and druggist, Wooler, that he is a wounded prisoner at Dalmen, Westphalia. Before joining up he was assisting his father in business.

MR. H. BERRY, Ph.C., late of the Northern College of Pharmacy, has been gazetted second-lieutenant in the Royal Garrison Artillery, dating from November 18, 1917. Second-Lieutenant Berry enlisted in the Royal Fusiliers (Public Schools) in 1914, transferring in 1915 to the R.E., and has seen nearly two years' service in France.

GUNNER C. F. LEAPER, Royal Field Artillery, who was awarded the D.C.M. some time since, has again been wounded in action, and is in hospital in Scotland. Gunner Leaper is the son of Mr. J. S. Leaper, chemist and druggist, assistant with Mr. P. R. Hill, Ph.C., Gorleston. Each Christmas of the war has been similarly spent by him.

CAPTAIN HERBERT CARTEIGHE MABEN, Worcestershire Regiment, has been awarded the Military Cross for gallantry (award dated January 1). Captain Maben, who is the youngest son of Mr. T. Maben, Ph.C., head of the medical and scientific department of Parke, Davis & Co.'s London branch, was recently gazetted adjutant (*C. & D.*, December 29, 1917, p. 33).

CAPTAIN ROBERT WILFRID TOWNSEND, Devonshire Regiment, has been awarded the Military Cross for gallantry (award dated January 1). Captain Townsend, who is the youngest son of the late Mr. James Townsend, founder of James Townsend & Sons, medical-label printers, Exeter and London, is a Bachelor of Arts, Cambridge. He was granted a commission at the outbreak of war, and has seen service in France and at Salonika. Three of his brothers are on active service.

MR. J. W. MCINTOSH, pharmacist, Portsmouth, who joined up at the beginning of the war and is now staff-sergeant R.A.M.C., on one of the Eastern fronts, writes to a colleague: "Dropped into a dug-out and found a pile of *C. & D.s*, which had been following an Irish subscriber. Read them through, ads. and all." Sergeant McIntosh gives an interesting narrative of his journeyings to and from England, the torpedoing of his hospital ship, and the splendid work of the British Navy in the rescue.

MAJOR J. H. B. WIGGINTON, A.S.C., has been awarded the Military Cross for gallantry (award dated January 1). Prior to the outbreak of war Major Wigginton had for ten years been manager of the drug and perfumery department of Harrod's Stores, Ltd. (*C. & D.*, September 26, 1914, p. 61). He was then called up with the Territorial Forces, and was subsequently wounded in the battle of the Somme. Several narrow escapes have since fallen to his lot, as well as what he describes as "a whiff of gas."

**Miscellaneous.**

ENEMY TRADE-MARK.—The Aberdeen Comb Works Co., Ltd., Aberdeen, are applying for the avoidance of trade-mark 234,869 belonging to the Internationale Galalith Gesellschaft Hoff et Cie.

ENEMY FIRMS.—A new list of additions to the statutory list of firms of enemy nationality or enemy association with whom persons in the United Kingdom are forbidden to trade has been issued by the Controller of Foreign Trade. Altogether forty-five names have been added to the list, among them being Raoul Schmidt (Pharmacie & Droguerie Carda), Rue Carlos Gomes 2, and Avenida Sete Setembro, Bahia, Brazil.

B

# Drug-stocks Declaration.

THE Secretary of the War Office announces that a return is required under the Drugs and Chemicals (Returns) Order, 1918, giving the information asked for in columns 2 and 3 of the following Schedule. All manufacturers of, or dealers in, the drugs and chemicals referred to in column 1 of the Schedule holding stocks above the minimum shown in column 2 are required to declare the amount of stock held on December 31, 1917. If the consumption of the drug or chemical during 1917 is greater than the quantity stated in column 3, the quantity sold or used in 1917 should be stated. The return should be completed and sent to the Director of Army Contracts (Room 274), Imperial House, Tothill Street, Westminster, S.W. 1, within fourteen days. The Army Council Order is published in the "London Gazette" of January 8.

SCHEDULE.

Return required of various drugs and chemicals when stock held is larger than quantity stated in the second column, and/or when the quantity sold in 1917 is greater than the quantity specified in the third column. Returns are to include drugs in powder and in compressed form, but not in galenical preparations, also different grades and varieties of each drug are to be calculated together. [Space is provided in a column for stock on December 31, 1917, and there is also a column provided for "Quantity sold or used in course of business during 1917."]

| 1<br>Name of Drug or Chemical. | 2<br>Minimum Stock below which no return of stock is to be made. | 3<br>Minimum Consumption during 1917 below which no return of consumption is to be made. |
|---|---|---|
| Acaciæ gummi ... ... ... | 1 cwt. | 5 cwt. |
| Acetanilide ... ... ... ... | 28 lb. | 2 cwt. |
| Acetic acid glac. ... ... ... | 56 lb. | 2 cwt. |
| ,, ,, 80 per cent. ... ... | 1 cwt. | 5 cwt. |
| Aconiti radix ... ... ... | 56 lb. | 2 cwt. |
| Adeps ... ... ... ... | 1 cwt. | 10 cwt. |
| Alcohol, 90 per cent. ... ... | 100 gals. | 1,000 gals. |
| Aloes ... ... ... ... | 1 cwt. | 5 cwt. |
| Anisi fructus ... ... ... | 1 cwt. | 5 cwt. |
| Anthemidis flores ... ... ... | 56 lb. | 2 cwt. |
| Areca-nuts ... ... ... ... | 56 lb. | 2 cwt. |
| Asafetida ... ... ... ... | 56 lb. | 2 cwt. |
| Atropine and salts ... ... ... | 10 oz. | 25 oz. |
| Aurantii cortex ... ... ... | 1 cwt. | 5 cwt. |
| Balsamum peru. ... ... ... | 28 lb. | 1 cwt. |
| Balsamum tolu. ... ... ... | 1 cwt. | 5 cwt. |
| Belladonnæ folia ... ... ... | 56 lb. | 2 cwt. |
| ,, radix ... ... ... | 1 cwt. | 5 cwt. |
| Benzoic acid and salts ... ... | 28 lb. | 2 cwt. |
| Benzoinum ... ... ... | 1 cwt | 5 cwt. |
| Bismuth metal ... ... ... | 56 lb. | 5 cwt. |
| ,, salts ... ... ... | 56 lb. | 2 cwt. |
| Borax and boric acid ... ... | 5 cwt. | 40 cwt. |
| Bromides ... ... ... ... | 1 cwt. | 5 cwt. |
| Bromine ... ... ... ... | 56 lb. | 5 cwt. |
| Buchu folia ... ... ... ... | 1 cwt. | 5 cwt. |
| Caffeine ... ... ... ... | 7 lb. | 28 lb. |
| Camphora ... ... ... ... | 1 cwt. | 5 cwt. |
| Cannabis indica ... ... ... | 28 lb. | 1 cwt. |
| Cantharides ... ... ... | 28 lb. | 1 cwt. |
| Carui fruct. ... ... ... ... | 1 cwt. | 5 cwt. |
| Cascara sagrada ... ... ... | 2 cwt. | 10 cwt. |
| Chloral hydrate ... ... ... | 28 lb. | 1 cwt. |
| Cocæ folia ... ... ... ... | 28 lb. | 1 cwt. |
| Cocaine and salts ... ... ... | 25 oz. | 100 oz. |
| Colchici cormus ... ... ... | 28 lb. | 1 cwt. |
| Colocynthidis pulp.... ... ... | 28 lb. | 1 cwt. |
| Copaiba ... ... ... ... | 56 lb. | 2 cwt. |
| Cubebæ fructus ... ... ... | 56 lb. | 2 cwt. |
| Digitalis folia ... ... ... | 56 lb. | 2 cwt. |
| Ergota ... ... ... ... | 56 lb. | 2 cwt. |
| Ext. filicis maris liq. ... ... | 14 lb. | 56 lb. |
| Fœnugræc. sem. ... ... ... | 2 cwt. | 10 cwt. |
| Galls ... ... ... ... ... | 56 lb. | 2 cwt. |
| Gentianæ radix ... ... ... | 2 cwt. | 10 cwt. |
| Glycerophosphates ... ... ... | 28 lb. | 1 cwt. |
| Glycyrrhizæ radix ... ... ... | 2 cwt. | 10 cwt. |
| Guaiacol liq. and carb. ... ... | 7 lb. | 56 lb. |
| Guaiacum resin ... ... ... | 56 lb. | 2 cwt. |
| Hexamine ... ... ... ... | 56 lb. | 2 cwt. |
| Hydrastis rhizoma ... ... ... | 14 lb. | 56 lb. |
| Hyoscine ... ... ... ... | 1 oz. | 4 oz. |
| Hyoscyami folia ... ... ... | 56 lb. | 2 cwt. |
| Insect-flowers ... ... ... | 1 cwt. | 5 cwt. |
| Iodides ... ... ... ... | 56 lb. | 2 cwt. |
| Ipecacuanhæ radix ... ... | 56 lb. | 2 cwt. |
| Jalapæ radix ... ... ... | 1 cwt. | 5 cwt. |
| Juniper-berries ... ... ... | 1 cwt. | 5 cwt |
| Kola-nuts ... ... ... ... | 56 lb. | 2 cwt. |
| Lactic acid, B.P. ... ... ... | 7 lb. | 28 lb. |
| Limonis cortex ... ... ... | 56 lb. | 2 cwt. |
| Lithium carbonate ... ... ... | 14 lb. | 56 lb. |
| Magnesia and mag. carb. ... ... | 4 cwt. | 20 cwt. |
| Manna ... ... ... ... | 28 lb. | 1 cwt. |
| Mercury ... ... ... ... | 1 cwt. | 5 cwt. |
| Methyl salicylate ... ... ... | 56 lb. | 2 cwt. |
| Myrrh ... ... ... ... | 1 cwt. | 5 cwt. |
| Ol. abietis (pini) ... ... ... | 7 lb. | 28 lb. |
| ,, amygdalæ ... ... ... | 1 cwt. | 5 cwt. |
| ,, caryophylli ... ... ... | 28 lb. | 1 cwt. |
| ,, cottonseed ... ... ... | 2 cwt. | 10 cwt. |
| ,, eucalypti... ... ... ... | 2 cwt. | 10 cwt. |
| ,, juniperi ... ... ... ... | 14 lb. | 56 lb. |
| ,, menth. piperitæ... ... ... | 56 lb. | 2 cwt. |
| ,, nucis ... ... ... ... | 2 cwt. | 10 cwt. |
| ,, olivæ ... ... ... ... | 4 cwt. | 20 cwt. |
| ,, ricini ... ... ... ... | 4 cwt. | 20 cwt. |
| ,, santali ... ... ... ... | 28 lb. | 1 cwt. |
| ,, theobromatis ... ... ... | 56 lb. | 2 cwt. |
| Opium ... ... ... ... | 28 lb. | 1 cwt. |
| Paraldehyde ... ... ... | 28 lb. | 1 cwt. |
| Pepsinum ... ... ... ... | 14 lb. | 56 lb. |
| Phenazone ... ... ... ... | 14 lb. | 56 lb. |
| Phenolphthalein ... ... ... | 14 lb. | 56 lb. |
| Physostigmine and salts ... ... | 1 oz. | 4 oz. |
| Pilocarpine salts ... ... ... | 1 oz. | 4 oz. |
| Podophylli rhizoma ... ... | 1 cwt. | 5 cwt. |
| Potassium carbonate ... ... | 2 cwt. | 10 cwt. |
| ,, chlorate... ... ... | 2 cwt. | 10 cwt. |
| ,, acid tartrate ... ... | 2 cwt. | 10 cwt. |
| Quassiæ lignum ... ... ... | 2 cwt. | 10 cwt. |
| Quinine salts ... ... ... | 500 oz. | 2,000 oz. |
| Rhei radix ... ... ... ... | 1 cwt. | 5 cwt. |
| Saccharum lactis ... ... ... | 2 cwt. | 10 cwt. |
| Salicin ... ... ... ... | 7 lb. | 28 lb. |
| Salol ... ... ... ... | 14 lb. | 56 lb. |
| Santonin ... ... ... ... | 7 lb. | 28 lb. |
| Sarsæ radix ... ... ... ... | 1 cwt. | 5 cwt. |
| Scammoniæ radix ... ... ... | 56 lb. | 2 cwt. |
| Senegæ radix ... ... ... | 1 cwt. | 5 cwt. |
| Senna-leaves ... ... ... | 5 cwt. | 40 cwt. |
| Senna-pods ... ... ... ... | 3 cwt. | 20 cwt. |
| Sodii salicylas ... ... ... | 56 lb. | 2 cwt. |
| Squill ... ... ... ... | 2 cwt. | 10 cwt. |
| Strophanthi semina ... ... | 14 lb. | 56 lb. |
| Sugar ... ... ... ... | 10 cwt. | 40 cwt. |
| Taraxaci radix ... ... ... | 1 cwt. | 5 cwt. |
| Terebinthina canadensis ... ... | 56 lb. | 2 cwt. |
| Tragacanth ... ... ... ... | 1 cwt. | 5 cwt. |
| Valerianæ rhizoma ... ... ... | 56 lb. | 2 cwt. |
| Zinc oxide ... ... ... ... | 2 cwt. | 10 cwt. |
| Zingiber ... ... ... ... | 2 cwt. | 10 cwt. |

# Military Tribunals' Decisions.

SINCE OUR LAST REPORT the following decisions have been notified:

APPLEBY.—Conditional exemption was renewed to Mr. John T. Nicholson, chemist and druggist.

CAMBRIDGE.—Mr. Sydney James Parson, chemist and druggist, Peas Hill, was granted three months' exemption. Mr. Mervyn Ernest Parson, chemist and druggist, Mill Road, was refused exemption, his calling-up notice to take effect on February 1 conditionally on no appeal being made. The Advisory Committee had suggested that one of the two chemists, who are brothers but not in partnership, should carry on both their businesses with such assistance as might be obtainable; and, in adopting this suggestion, the Tribunal added that when Mr. S. J. Parson applies for renewed exemption they will want to be satisfied that he has done everything possible to keep up his brother's business.

DALTON-IN-FURNESS.—Conditional exemption to Mr. Albert G. Grigg, chemist and druggist, was renewed.

DORKING.—The National Service Representative's appeal against the exemption granted to Mr. F. Underwood, assistant with Mr. V. Norman, chemist and druggist, was dismissed.

GILLINGHAM.—Three months' exemption was granted to Mr. R. S. Hardie, chemist and druggist, manager for Mr. C. E. Beveridge, chemist and druggist.

KIRKBY STEPHEN.—The National Service Representative successfully appealed against the exemption of Mr. M. Lamb, apprentice with Mr. Crozier, chemist and druggist.

LAMBETH.—The appeal of Mr. P. W. Sugden, assistant in the pathological laboratory of the Board of Guardians, was dismissed, the calling-up notice to be deferred for two months.

# Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

### Report on December Analytical Exercise.

THE powder distributed to students on December 11 contained eight parts by weight of lead chloride, one part of cadmium bromide, and one part of cadmium iodide. The calculated composition of such a mixture is:

| | |
|---|---|
| Pb | 59.6 |
| Cd | 7.2 |
| Cl | 20.4 |
| Br | 5.9 |
| I | 6.9 |
| | 100.0 |

Distinct traces of iron and of magnesium were present as impurities.

Samples of the powder were distributed to forty-one students, and twenty-one reports were submitted for examination. Lead was reported as a main constituent in every case, but cadmium was missed by no fewer than fifteen correspondents. Failures in detecting the acid radicals were: Hydrochloric, 1; hydrobromic, 13; hydriodic, 6. No single correspondent was successful in detecting the whole of the main constituents. On the other hand, quite a remarkable array of substanoes were reported present which we were unable to confirm: these included silver, antimony, tin, arsenic, bismuth, zinc, manganese, aluminium, chromium, calcium, and sulphur, with the radicals of nitric, sulphuric, phosphoric, boric, and acetic acids.

The yellow colour of the powder was due to slight interaction which resulted in the formation of some lead iodide, but it suggested a chromate and free sulphur, and led to special endeavours to prove one or other of these to be present.

This analysis was a little more difficult than that for the preceding month, and the fact is reflected in the lower standard of marks attained. In particular, the detection of cadmium and of bromine proved troublesome: Preliminary tests gave, in most cases, distinct indications of lead and of iodine, but the other main constituents had to be sought for in the systematic examination. When heated in a hard glass tube the powder fused, yielding an amber-coloured liquid which resembled fused sulphur, and in one or two cases this either heightened the suspicion or even led to the conclusion that free sulphur was present.

The powder dissolved almost entirely in boiling water, and the slight remaining turbidity disappeared instantly on the addition of a drop of hydrochloric acid to the boiling liquid. When this solution cooled, lead chloride was precipitated abundantly. The filtrate from this precipitate was properly treated by but few students. In order to ensure anything like complete precipitation from it of the lead and cadmium, as sulphides, it was essential:

1. To avoid the presence in it of any considerable proportion of free acid;
2. To dilute it largely with water, or, better, with solution of hydrogen sulphide; and
3. To saturate it fully with hydrogen sulphide, in the cold, after dilution as above.

Incomplete fulfilment of one or more of these particulars led to partial, or, in one or two extreme cases, to complete failure to precipitate the lead and cadmium at this stage, and subsequent trouble was met with in consequence.

A few students did not test for cadmium at all in the examination of the hydrogen-sulphide precipitate.

Difficulty was seldom experienced in proving the presence of chlorine, and iodine was usually detected and confirmed fairly readily, but bromine proved more elusive. The procedure adopted by most students consisted in adding chlorine to a prepared slightly acid solution until the iodine was liberated, and then continuing the addition of chlorine so as to oxidise this iodine to iodic acid and liberate bromine if present. The solution was then shaken up with a few drops of chloroform or of carbon disulphide, and the presence or absence of bromine was decided upon according to whether or not a brown solution resulted. This procedure was quite satisfactory, and gave a distinct positive result when carefully applied to a not too dilute solution. The fact that a number of students who employed it failed to detect the bromine seems to indicate that the test had been applied in artificial light or to a too dilute solution, or that its result had not been observed with sufficiently close attention.

PRIZES.

The First Prize for the best analysis has been awarded to ALFRED G. SCOTT, 32 Sciennes Road, Edinburgh.

The Second Prize has been awarded to J. W. B. YOUNG, 33 Square, Kelso.

*First Prize.*—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

*Second Prize.*—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. *Correspondents who are unqualified:*

| | | | |
|---|---|---|---|
| A. G. Scott (1st Prize) | 85 | Corse | 64 |
| J. W. B. Young (2nd Prize | 84 | Melonia | 62 |
| Cyanide | 83 | Oro | 57 |
| Esperante | 82 | Somme | 57 |
| L. C. | 81 | Atom | 56 |
| Samarium | 76 | Blowpipe | 56 |
| F. R. O. | 71 | Mark | 55 |
| Balsam | 70 | Quercus | 54 |
| E. M. Oliver | 65 | Juan | 51 |
| Jayjay | 65 | The Bing Boys | 38 |

2. *Correspondent who is qualified:*

Snavei ... 70

TO CORRESPONDENTS.

*L. C.*—It was distinctly inexact to describe the powder as insoluble in water. See the general remarks.

*Samarium.*—The hesitation we expressed a month ago to ascribe some of your confirmatory tests to imagination is getting dispelled. The tests for bismuth and manganese, which you describe circumstantially this time, entirely failed in our hands to yield the results you report.

*F. R. O.*—You left the question of the presence or absence of tin an open one. This is not satisfactory. You must state your own conclusions from the evidence gained in your analysis. You will find it an excellent discipline to carry out analyses with the smallest quantities of materials which yield unmistakable results, since occasions arise when only minute quantities are available. You would do well to conform to usage in the matter of writing symbols: thus, SN and BI are not desirable substitutes for Sn and Bi, and still less so is CO for Co. Apparently you omitted to test for cadmium.

*E. M. Oliver.*—When magnesium is present in small proportion it is not precipitated at once as ammonium magnesium phosphate, and heating does not tend to accelerate precipitation. Prolonged standing in the cold, after gently rubbing the inside of the test-tube with a glass rod, is the most satisfactory condition for the precipitation.

*Jayjay.*—Note that silver iodide is insoluble in ammonia—not slowly soluble. The odour you described as "acetous" was simply due to hydrochloric acid. The calcium probably came from tap-water.

*Corse.*—Concentrated hydrochloric acid stains turmeric reddish-brown on drying, but this stain is not turned green by sodium hydroxide. Try a blank test with the turmeric-paper you ordinarily employ.

*Melonia.*—The colour of the powder suggested sulphur, but none was present, free or combined. We could not obtain the results you describe in testing for a borate.

*Oro.*—The reactions you attributed to aluminium and zinc were most likely due to lead or cadmium, or to both.

*Somme.*—The methods by which you satisfied yourself that bromide and chloride were absent require thorough overhauling. You will profit greatly by submitting known mixtures containing one, two, or all three of the commoner halogen acid radicals to detailed examination until you can distinguish and separate the latter with certainty.

*Atom.*—Had a chromate been present in the original acid solution, hydrogen sulphide would have reduced it to chromic salt, hence your treatment with alcohol to reduce a *possible* chromate was wholly superfluous. Study the conditions under which chromates are reduced to chromic salts and the latter are oxidised to chromates.

*Blowpipe.*—Fusion mixture does not contain potassium nitrate: it consists of sodium and potassium carbonates. You were mistaken about the hydrogen-sulphide precipitate having dissolved completely in ammonium sulphide, since both its constituents were insoluble in that reagent.

*Mark.*—The ammonium radical was not present. The dark "ring" you supposed to indicate a nitrate was due to iodine liberated from the iodide.

# English and Welsh News.

**The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."**

### Contracts.

The following tenders have been accepted:

Cambridge Guardians.—Mr. J. Evans, chemist and druggist, Fitzroy Street, drugs, etc., for three months.

St. Pancras Guardians.—Thos. Hodgkinson, Prestons & King, drugs for three months.

Salford Public Health Committee.—Burroughs Wellcome & Co., serums.

Southwark Guardians.—The British Drug Houses, Ltd., drugs, etc., for three months.

Worksop Guardians.—Mr. J. R. Pennington, chemist and druggist, drugs.

### Birmingham.

Olive oil is not obtainable in any quantity just now.

The scarcity of castor oil has caused the appearance of castor-oil substitutes, especially as lubricants for machinery. They appear to be of the mineral-oil class, and of a deep red-brown colour and viscid.

Sir Thomas Barclay, who adjudicated in a case of a coal-dealer selling inferior coal, brought forward the matter before his brother Magistrates at their recent annual meeting, and suggested that analyses of coal should be produced when required, so that the Judge may be in a better position to decide what is or is not good house-coal. He met with unanimous support.

### Liverpool.

Nominations for the six vacancies on the Council of the Liverpool Chemists' Association are desired, not later than January 16. The retiring members are not eligible.

The last customer at a central area pharmacy on a recent Sunday night stated that in consequence of the general closing of houses of refreshment he had remained all day in bed. It was evident that he had not lacked alcoholic sustenance, the more so as he eventually carried off the door-handle!

A dispensing chemist this week made up a prescription for a stockbroker confined to his room with influenza. The pharmacist learned that the patient's temperature rose and fell rather frequently, and that some of his clients had opened speculations on the figures, which were ascertained by a clerk twice or thrice daily!

The holders of the first preference shares in the National Drug and Chemical Co. of Canada, Ltd., met on January 4, in Liverpool, Sir James Hope Simpson presiding. Mr. William P. Evans (chairman of Evans Sons Lescher & Webb, Ltd.) was elected to take the place of his late eldest brother (Mr. John J. Evans) as one of the trustees.

### Sheffield.

Francs are being passed over counters for shillings during the busy evening hours, when lights burn dim.

The Medical Supply Association are making a special push of I.R. hot-water bottles (London make) at the following cut prices: 10 × 8, 5*s.*; 12 × 8, 5*s.* 6*d.*; 12 × 10, 6*s.* 6*d.*

Something like uniformity is desirable in the local sales of s.v.m. At present it is found that some pharmacists are strict and others—not so strict, with the result that nurses are securing it for burning, thus presaging trouble.

Local chemists will be interested to learn that Mr. Harold Eardley, R.N.V.R., only son of Mr. J. F. Eardley, Ph.C., Sheffield, and Lindrick, is to be married during this month (leave permitting) to Miss Jessie Turner, The Grange, Aston.

### Miscellaneous.

A PROTEST.—At Marlborough Street Police Court, London, W., on January 7, William Brooks Sayers, engineer, West Byfleet, was fined 2*l.*, and ordered to pay 40*l.* damage, for breaking two shop-windows at Cambridge Circus, one being the property of Santoid, Ltd. Defendant's excuse was that improper things were exposed for sale in the windows, and that talking about the subject was useless.

MOTOR FATALITY.—At an inquest at Westminster on January 4, on the body of Miss E. M. A. Jones, who was killed on January 2 in Eaton Square as the result of a collision between two motor-vehicles, one of which belonged to Allen & Hanburys, Ltd., the jury found that Frederick George Kennell, the driver of this vehicle, was guilty of negligence, though not of criminal negligence. The other sister, Miss Elaine Anthony-Jones ("E. M. Jameson"), an authoress, has since died in hospital.

PAPER RESTRICTION.—The Royal Commission on Paper has this week issued a statement regarding advertising circulars in which occurs the following:

"It is not, as many have assumed, the intention of the Commission to prohibit the issue of advertising circulars or the exhibition of posters after January 31. A new Paper Restriction (Posters and Circulars) Order, revoking and replacing the existing Order of October 22 and the general licence of November 8, is being framed, and will be published as soon as possible before February 1."

BRITISH INDUSTRIES FAIRS, 1918.—As it is possible that the new accommodation for the British Industries Fair, 1918, may not be entirely completed by February 25, and as it is of great importance that the British Industries Fairs in London and Glasgow should be held simultaneously, the Board of Trade have decided to postpone the opening of both Fairs for two weeks. Accordingly the period for which the British Industries Fairs in London and Glasgow will be open will be March 11 to March 22.

CONTROL OF LIGHTING.—The Minister of Munitions has issued an Order—the first under Regulation 11A (see *C. & D.*, December 29, 1917, p. 34)—that in the county borough of Derby no light shall be used in any shop-front on any weekday, other than Saturday, after 3.30 P.M., or during any period of abnormal darkness occurring at an earlier hour. Light approved by the chief officer of police as necessary for the serving of customers is excepted, and a small illuminated sign may be shown in the shop-front to indicate that a shop is open.

CHEMICAL WORKERS' CONDITIONS.—At Manchester, on January 8, a conference was held between representatives of the Chemical Manufacturers' Federation and of several Chemical Trade Unions, Mr. Roscoe Brunner (Brunner, Mond & Co., Ltd.) presiding. It was agreed to satisfy the claim of workers for one week's holiday each year, with pay, to introduce at the earliest moment an eight-hour day, and generally to improve the working conditions of labourers and others employed in the chemical trades. It was also agreed to form a Chemical Trades Industrial Council.

THEFT CHARGES.—At Preston Sessions, recently, Wilfred Lowe, chemist, was sentenced to twelve months' hard labour for receiving, and Thomas Higham, colourist, to nine months' imprisonment for stealing, 3 lb. of dye, value 22*l.*, the property of the Calico Printers' Association, Love Clough Works. It was stated that Lowe, who pleaded not guilty, had been engaged as chemist at a Government explosives factory.—At Swansea Police Court, Henry Salisbury, seaman, was remanded on a charge of breaking and entering the shop of Boots, Ltd.

BRITISH ASSOCIATION OF CHEMISTS.—The British Association of Chemists (Provisional Society) has issued its first annual report. The inaugural meeting, which was held in Manchester on November 10 (*C. & D.*, November 17, p. 35), and was attended by about 700 chemists, resolved to form an association, membership of which should be open only to holders of University degrees with chemistry as principal subject and persons in responsible positions who have practised pure and applied chemistry for seven years. The main object of the Association is to act as sole registration authority for all chemists, and it aims at "securing a supply of highly trained chemists adequate to the industrial needs of the country," and obtaining "a legal definition of the word 'chemist.'"

## Tales of Oenophus.

### IV.—Ye Heretick of Hereforde.

IN ye Multitude of Retaylers there be those who walke not in that Contente which becometh their Station in Life. Yea there be Some who, from tyme to tyme, even cry loudily for a Greater Aboundance of Shekels as a Rewarde for their Barterynge.

Whereat ye Makers of Marvellous Remedyes unfurl ye Banner of "Peeayteeaye" and poynte ye Roseate Pathe of Ryghteousnesse.

'Mong suche Malcontentes none were greater than one Jackke's Son, whom People name ye Heretick of Hereforde. For he was a Man of Position and his motto was "Sell-au-Dine." Moreover he was of Readye Penne, Persuasive Speeche and Courage of Convictione.

And he stirred uppe Stryfe within ye Crafte, clamouring for Higher Prophets.

Thenne ye Makers of Marvellous Remedyes communed together, and Ugoh (surnamed ye Wolfe) leapt forwarde.

"By ye Soul of Nathan," cried Ugoh, "if ye butte hearken unto me, I will show that ye are Robbing Poor Proprietores of Hard Earned Pence. Alreadye thy Prophet is Much Too Highe."

Butte ye People would not hearken to ye Winged Wordes of Ugoh, and ye Heretick is Still Onne Toppe.

Nathless there may come Further Great Debate, for Alexus hath spoken.

# Irish News.

### Pharmaceutical Society of Ireland.

The following are results of the recent Preliminary examination: Helena Kennedy, Dublin, and Patrick Kelly, Glanworth, co. Cork, passed with honours. The following also passed: Mary Elizabeth Martin, Ballinamore; Wm. Edward Colbert, Navan; Eileen Mary West, Dublin; Denis Martin Hayes, Kilmallock; John Crawford Maxwell, Scotstown, Monaghan; Patrick John Cogavin, Ballinasloe; Wm. John Heatrick, Ballybay; Joseph Reid, Ballymena. Twenty candidates were rejected.

### Brevities.

Mr. Eustace Webb has been appointed dispenser to co. Wexford Infirmary.

The business of the late Mr. Joze, Ph.C., College Green, Dublin, has been acquired by Dr. Leonard's Medical Halls.

Colonel R. J. Blackham, Ph.C., M.R.C.P. Edin., L.R.C.S. Edin., R.A.M.C., has received the C.M.G., in addition to the D.S.O.

The Rev. John Thom, C.F., St. Catherine's, Dublin, who has won a second bar to his Military Cross, is the brother of Mr. R. M. Thom, assistant with Mr. J. Smith, Ph.C., Rathgar.

Captain S. R. Armstrong, R.A.M.C., recently mentioned in Sir Douglas Haig's despatches, is the brother of Mr. F. P. Armstrong, L.P.S.I., manager of Hayes, Conyngham & Robinson's branch, 66A Upper Georges Street, Kingstown. Captain Armstrong has been at the Front since the beginning of hostilities.

Considerable damage was done by an explosion on January 5 near the chemist's shop of Mrs. Duane, Main Street, Ballinasloe, the explosion apparently resulting from the ignition of gas in the street. The proprietress had a narrow escape. The manager's desk was torn from its fastenings and turned upside down, while the shop was littered with broken bottles.

Sir Thomas Robinson, J.P., Ph.C., whose collection on behalf of the Dublin Chamber of Commerce Red Cross Fund was referred to in the *C. & D.*, November 24, 1917, p. 36, sends us the final list of subscribers to the Pharmaceutical and Allied Trades Section. The amount collected was 377*l.* 2*s.* 6*d.* The last list is as follows:

The Apothecaries' Hall, Dublin, 26*l.* 5*s.*; W. F. Wells & Co., 5*l.*: Sir James Murray & Co., 3*l.* 3*s.*; J. Leonard & Co., 3*l.*; Chas. E. Digges, Ph.C., 2*l.* 2*s.*; J. S. Evans & Co., Ltd., 2*l.* 2*s.*: C. W. Robinson, Ph.C., 2*l.* 2*s.*; G. H. Batt, Ph.C., 1*l.* 1*s.*; Furlong's Medical Hall, 1*l.* 1*s.*; James Hanson, R.D., 1*l.* 1*s.*; J. R. Mackey, Ph.C., 1*l.* 1*s.*; Wm. Smullin, Ph.C., 1*l.* 1*s.*; D. C. Glenn, Ph.C., 1*l.*; P. J. Burns, Ph.C., 5*s.*; Shirley, Spence & Belford, Ltd., 25*l.*; The Greenmount Oil Co., Ltd., 20*l.*; Harker, Stagg & Morgan, Ltd., per John H. Miles, 5*l.* 5*s.*; W. T. Corrigan, Ph.C., Celbridge, 10*s.*

### Carbolic Acid for Carbolic Oil.

At Bailieboro' Quarter Sessions on January 5, an action remitted from the King's Bench was heard under which Joseph Fisher, Carrickmacross, sued Robert McElwaine, the Medical Hall, Bailieboro', for 50*l.* damages sustained by reason of the alleged negligence of the defendant in supplying him with carbolic acid instead of carbolic oil. Mr. Smith, solicitor, appeared for plaintiff, and Mr. Geoghegan for defendant. Plaintiff deposed that he was a general dealer, and that on July 2 he was in Bailieboro', and feeling some pain in his arm, he spoke to his wife about it. In consequence she went to the Medical Hall for an application. When this was used it burned his arm, and he suffered great pain. The arm had to be dressed by a doctor, and afterwards he went into hospital on account of the injury. Mrs. Fisher said she ordered carbolic oil from defendant's assistant. For the defence John McElwaine, nephew of the defendant, said he supplied carbolic oil. It was contended for the defence that the pain in plaintiff's arm was due to the blood-poisoning from which he had been suffering previously. His Honour held that carbolic acid was supplied in mistake, for which the defendant was not morally responsible, but he was legally liable for the mistake of his assistant. He gave a decree for 7*l.*, to include 3*l.* 3*s.* for doctor's fees.

# Scottish News.

### Brevities.

It was stated recently at a Stirlingshire military tribunal that Shand Bros., Milton of Campsie, are the only Scottish firm at present making aniline dyes.

Many Scottish pharmacies closed on January 1 and 2. Business was not interfered with, and the innovation is likely to become the practice in future.

Mr. J. W. Hastie, iron-merchant, Queen's Drive, Glasgow, died as the result of drinking ammonia from a bottle taken in mistake from a row of similar bottles.

Members of the Dundee and East of Scotland Pharmaceutical Association have contributed 57*l.* 10*s.* to Hyndford House War Dressings Depôt. Mr. C. Young, chemist and druggist, Ann Street, has given 30 lb. of cotton-wool, and T. Peebles, Ltd., a supply of bandages.

### Scottish Chemists' Retail-price List.

The Glasgow and West of Scotland Chemists' Association has issued the first number of a monthly retail-price list, to be supplied at the yearly rate of 1*s.* 6*d.* Pharmacists welcome it as a guide, and predict for it an enlarged scope. A few prices are appended: Acid. acetylsal., 6*d.* dr.; adeps lanæ hyd., 6*d.* oz.; ferri et quin. cit., 6*d.* dr.; lin. camph., 4*d.* oz.; lin. iodi, 1*s.* oz.; magnes. levis, 7*d.* oz.; ol. amygd. (ang.) dulc., 6*d.* oz.; ol. caryoph., 5*d.* dr.; phenacetin., 1*s.* 6*d.* dr.; pot. bicarb., 5*d.* oz.; pot. brom., 1*s.* oz.; quin. sulph., 1*s.* 2*d.* dr.; tinct. quin. ammon., 8*d.* oz.; tinct. rhei co., 6*d.* oz.; tragacanth. pulv., 3*d.* dr.; ung. ac. boric., 3*d.* oz.; ung. sulph., 4*d.* oz.; vin. ipecac., 5*d.* oz.

### Edinburgh.

At least one local chemist has ceased to retail castor oil.

The scarcity of certain health salines and dusting-powders is giving increased opportunity to local manufacturers of these goods.

At the annual meeting of the Ancient Corporation of Squaremen on January 1, Mr. Victor Wright, chemist and druggist, was re-elected apothecary. Dr. Lyon Wilson, son of the late Mr. Wilson, chemist and druggist, Nicolson Street, Edinburgh, was re-elected surgeon.

# A Year of Better Business.

TWELVE MONTHS' ADVERTISING.

Make up your mind how much you can afford in this direction. The amount will vary according to the size of the business. This decided, allocate a percentage to the various forms of publicity, which in normal times is something as follows:

| | |
|---|---|
| Press advertising ... ... ... | 30 per cent. |
| Circulars, parcel-slips, etc. ... | 20 ,, ,, |
| Window-tickets, showcards, and display material ... ... | 15 ,, ,, |
| Posters and outdoor signs ... | 10 ,, ,, |
| Sketches, blocks, etc. ... ... | 7½ ,, ,, |
| Personal letters ... ... ... | 5 ,, ,, |
| Service fees ... ... ... | 7½ ,, ,, |
| Postage, sundry expenses ... | 5 ,, ,, |

The Paper Restriction (Posters and Circulars) Consolidation Order, however, makes it necessary that the amount allocated to circulars, parcel-slips, and showcards should be saved or added to the other items. The restrictions in regard to posters were detailed in the *C. & D.*, January 5, p. 39. Some businesses do not use newspaper space, but, wherever there is a local paper, space should be taken in it, because it is the quickest and cheapest form of advertising, hence I have apportioned the largest sum to this. When contracting for space, stipulate that the copy is to be changed weekly or fortnightly; you may have to pay a little extra for this, but it will be well worth it. Another condition should be that you can vary the space; say, 2-inch double column one week and 4-inch single the next, or perhaps 2-inch single one week and 6-inch single the next, and so on. Study the paper well, and decide which position catches the eye. Position makes a vast difference to the selling-power of an advertisement. While on this subject, I would mention that it is well worth while arranging to have 250, 500, or 1,000 (according to your requirements) imprints made while the type is standing, for use at the counter while the advertisement is running in the paper. This should only cost a few shillings, as there will be no cost of setting up type.

WINDOW-TICKETS, SHOWCARDS, ETC.—Don't use stock tickets. Have a series designed for your business, and see that they are distinctive. The name-block mentioned later should be used on all showcards. Most chemists are handy with tools, and can make all the requirements for window-displays. Those who cannot should invest a few pounds in suitable materials.

SKETCHES, BLOCKS, ETC., for your own proprietaries are worth consideration, and electros for toilet-articles and sundries can be borrowed from the manufacturers or wholesalers. A good name-block will well repay its cost, and should be used on all labels, stationery, packets, newspaper advertising, etc.—*Herbert E. Kendrick.*

# Pharmaceutical Society of Great Britain.

## Council-meeting.

THE MONTHLY MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on January 9, the President (Mr. E. White) in the chair. The other councillors present were the Vice-President (Mr. E. T. Neathercoat), the Treasurer (Mr. W. H. Gibson), and Messrs. F. E. Bilson, J. H. Cuff, W. L. Currie, J. W. Deakin, F. J. Gibson, R. L. Gifford, T. Guthrie, A. Hagon, J. F. Harrington, F. G. Hines, A. H. Jenkin, J. Keall, L. M. Parry, P. F. Rowsell, F. P. Sargeant, H. Skinner, and J. R. Young. Mr. A. S. Campkin was absent through illness.

The minutes of the previous meeting were read and confirmed. There were no questions.

### ORDER OF THE BRITISH EMPIRE.

The PRESIDENT announced that the membership of the Order of the British Empire has been conferred on Mr. W. J. Uglow Woolcock, Ph.C., Secretary and Registrar of the Society. In a eulogistic little speech he pointed out that Mr. Woolcock, in his confidential capacity, had been able to render signal service to the country, and added that he would adorn the Order to which he belongs. (Prolonged applause.) The name of Mr. Owen A. Clark, chemist and druggist, Mayor of Bury St. Edmunds, another new member of the Order, was also mentioned, and it was agreed that a letter of congratulation be sent him.

### ELECTIONS AND RESTORATIONS.

A number of members and student associates were elected, and eighteen persons were restored to the Society.

### CORRESPONDENCE.

The Privy Council wrote transmitting the Order for the transference of the veronal group of poisons to Part I. of the Poison Schedule. (See *C. & D.*, December 22, p. 46.)

The London County Pharmaceutical Association and the Plymouth Association sent letters on the shortage of olive oil (and also, in the London Association's case, of lard), asking what steps the Society could take, on "W.E.F." lines or otherwise, to relieve the stringency. The Ministry of Food wanted an estimate of the quantity of lard used in pharmacy, and Price's Patent Candle Co., Ltd., pointed out in a letter that the olive-oil position was resulting, *inter alia*, in a shortage of B.P. soft soap.

The PRESIDENT stated that the Committee appointed last year to deal with the glycerin and sugar difficulty also considered the question of lard; but their recommendations under this head were not adopted by the General Medical Council. Mr. ROWSELL thereupon moved, and Mr. CUFF seconded, a resolution empowering the President to call together the same Committee from time to time, as required, to devise emergency regulations. This resolution was carried after an interesting discussion (eventually transferred to Committee) in the course of which Mr. Skinner mentioned that yellow liquid paraffin was in use as an olive-oil substitute in hospital practice.

The Norwich Association wrote respecting the proposed Ministry of Health, urging the claims of pharmacists in any State scheme that may be formulated. Mr. ROWSELL remarked that it was time to consider the position of the Society as a society with regard to this very important matter. The PRESIDENT replied that this was being done, and that it was part of a larger question.

The Blackpool and Fylde Association forwarded a recommendation that the title "Chemist" should be reserved to registered chemists and druggists. "Conserved," was the substance of the PRESIDENT's comment.

The Ministry of Food sent a formal authorisation of the use of maize flour in "W.E.F." preparations.

The War Office wrote thanking the head of the Research Laboratory for research concerning lio. calcis sulph.

Bristol University acknowledged the re-appointment of Mr. P. F. Rowsell as the Society's representative on the Court of the University.

The Conjoint Board of Scientific Societies forwarded a memorandum on the publication of scientific information that might assist the enemy, suggesting that all scientific news regarding which there is any possible doubt should be held over till the end of the war.

### FINANCE COMMITTEE.

The Secretary read the report of the Finance Committee. The financial statement is summarised as follows:

The receipts of the General Fund since the last Committee-meeting amounted to 1,706*l.* 16*s.* 9*d.*, made up as follows: Penalties and costs, 34*l.* 3*s.* 4*d.*; "Pharmaceutical Journal" and publications, 372*l.* 18*s.* 2*d.*; bank interest, 1*l.* 11*s.* 6*d.*; examination-fees, 434*l.* 15*s.*; registration-fees, 92*l.* 8*s.*; restoration-fees, 5*l.* 5*s.*; loan from Benevolent Fund, 500*l.*; sundry sales, 35*l.* 10*s.* 6*d.*; rent, 150*l.*; dividend on war stock, 80*l.* 5*s.* 3*d.*, making, together with balance in hand, a total of 2,213*l.* 4*s.* 6*d.* After deducting payments ordered at the last meeting, a balance of 280*l.* 14*s.* 6*d.* remained. The amount recommended for payment was 2,050*l.* 9*s.* 4*d.* The other balances were: Benevolent Fund (current account) 855*l.* 7*s.*, (donation account) 463*l.* 8*s.* 7*d.*; Orphan Fund, 137*l.* 16*s.* 5*d.*

In moving the adoption of the report, the TREASURER showed that the balances in hand were larger than those of a year ago. The motion was seconded by Mr. ROWSELL, and carried after a brief discussion.

### BENEVOLENT FUND.

Mr. BILSON moved the adoption of this Committee's report, which recommended three grants. The following contributions were announced:

Birkenhead, etc., Association, 15*l.* 10*s.* 6*d.*; Mr. James W. Epps, Ph.C., 5*l.* 5*s.*; London Pharmaceutical Committee (box), 5*l.* 17*s.* 3*d.*; Manchester Association, 7*l.*; Plymouth Association, 5*l.*; Newcastle-on-Tyne Association, 4*l.* 8*s.*; Gloucestershire Association, 1*l.* 1*s.*; Barrow Association, 1*l.* 1*s.*; West Ham, etc., Association (box), 1*l.* 16*s.* 9*d.*; Merthyr Tydfil Association (box), 1*l.* 5*s.*; Great Yarmouth Association (box), 1*l.* 1*s.*; Scarborough, etc., Association (box), 1*l.*; Hull Association (box), 17*s.* 6*d.*

After the motion had been seconded by Mr. KEALL, Mr. PARRY suggested that it was quite possible that heavier claims on the Fund would arise, and that larger contributions might be invited in view of such a contingency. The report was adopted.

### LIBRARY COMMITTEE.

In moving the adoption of this Committee's report, which included the customary particulars concerning the Society's libraries, the PRESIDENT mentioned that a protest had been added by the Committee against the reported action of the Government in taking over portions of the British Museum and the Natural History Museum for departmental purposes. He also called attention to a recommendation on the following remit from the Council:

"That the Council create a standard of qualification by examination, so that only successful candidates should be allowed to term themselves Bacteriologists; also that the Pharmacists' Qualifying examination be arranged that it may be taken in stages." (West Ham, etc., Association.)

The Committee decided to recommend the Council to formulate new by-laws for the qualifying examination. (As to the earlier portion of the remit, it was felt to be impracticable.) He (the President) would like to see something definite arranged for before he quitted office. A three-months' course of study for the Minor was quite inadequate, and he had known candidates to own to having taken four or five such courses. Six months should be the minimum, and the new by-laws should be elastic.

The report having been seconded by Mr. HARRINGTON, and carried, Mr. DEAKIN moved that the Library Committee be instructed to draft a scheme. An amendment was proposed by Mr. SARGEANT that the special Committee once formed to deal with this matter be re-appointed. After considerable research as to the *personnel* of this special Committee and a brisk interchange of opinions, the amendment was lost, only four members voting for it. Mr. Deakin's motion was then carried.

### GENERAL PURPOSES COMMITTEE.

The report of this Committee included Mr. Campkin's further report on the retail price of copper sulphate for next season, and a decision on the following motion by Mr. Skinner:

"That it be a suggestion to the Local Associations Executive to frame a definite resolution to be sent to every Pharmaceutical Committee asking them to proceed through their representative on the Insurance Committee to urge the passing of such recommendation for the emendation of the compulsory words from the Regulation on Rural Areas so far as they affect the pharmaceutical position."

Mr. Skinner was reported as satisfied with the reply of the Committee, and the report was adopted.

### POST-WAR EDUCATION AND CLOSED SHOPS.

Mr. SKINNER moved, in accordance with notice:

"That it be an instruction to the House and School Committee to examine the position of *bonâ-fide* assistants, apprentices, and students whose careers as possible pharmacists have been suspended by the exigencies of war, for the purpose of seeing what can be done to facilitate their re-absorption into pharmaceutical life without any loss to them arising from their patriotic response to our country's call.

"Also to examine as far as possible the position of those who have had to close their businesses to serve their country in order to render all possible assistance, financial or otherwise, to rehabilitate themselves in civil life approximating to their former status."

Commenting briefly on the terms of his motion, he pointed out that certain universities have obtained powers to vary their examinations, and suggested that the Society might well fall into line with so desirable a plan. Mr. ROWSELL seconded, and a sympathetic discussion was contributed to by Messrs. BILSON, F. J. GIBSON, DEAKIN, HINES, and PARRY. Mr. PARRY'S use of the word "flapdoodle" provoked a call for a definition from Mr. ROWSELL, and the reply indicated that Mr. Parry was an authority on the art of cock-fighting.

BOARD OF EXAMINERS.

Mr. F. W. Gamble, Ph.C., was appointed assistant-examiner, the health of Mr. E. H. Farr being at present indifferent.

At the close of public business, it was announced that Mr. J. W. Knapman was still in ill-health.

## Examination Results.

WE have received from the Registrar of the Pharmaceutical Society of Great Britain the following lists of candidates who were granted Minor certificates at the recent examinations held in London and Edinburgh:

LONDON.

Atkins, Frank; Beeston.
Bacon, A. H.; Warwick.
Cooke, Cecilia M.; Golders Green.
Cooper, J. W.; Bradford.
Felton, A. G.; London.
Greenberg, S.; Shepherd's Bush.
Griffith, John; Carnarvon.
Hawkey, Edgar; Brighton.
Hayes, Gladys H. D.; Forest Hill.
Hiam, R. W.; Stratford-on-Avon.
Jones, G. O.; Tredegar.
Kirkpatrick, Mabel M.; Upton Manor.
Ladd, Benjamin; Cardigan.
Liggins, Doris J.; Nuneaton.
Mills, J. N.; Ramsey, I-of-M.
Newman, E. J.; Barking.
Nice, A. E. C.; Bath.
Prichard, H. E.; Abertillery.
Robinson, W. L.; Manchester.
Sayer, W.; Barnard Castle.
Sykes, W. A.; Preston.
Taylor, Elsie E. M.; Leeds.
Vokes, Winifred; Birmingham.
Watson, Margaret W.; Cleator Moor.
Williams, Margaret; Wolverhampton.
Worrall, E.; Sheffield.

EDINBURGH.

Allison, J.; Paisley.
Campbell, Mary H.; Motherwell.
Carruthers, J. A.; Monifieth.
Carson, Janet H. B.; Eskbank, Midlothian.
Fraser, Jeanie K.; Glasgow.
Halden, Isaure M. M. I.; Glasgow.
Pearson, J.; Turriff.
Robertson, Mary R.; Dinult.
Scott, A. G.; West Hartlepool.
Shaw, Isabella D.; Glasgow.

## Personalities.

MISS MINNIE BROAD, chemist and druggist, Eastern Hospital of the Metropolitan Asylums Board, has been appointed pharmacist at the South-Western Hospital, Stockwell, under the same authority.

MISS H. V. GIBBS, daughter of Mr. John Gibbs, chemist and druggist, Upton-on-Severn, received the Royal Red Cross at Buckingham Palace on December 19, 1917, in recognition of services rendered at a V.A.D. hospital.

AT the annual general meeting of the London Association of Country Commercial Travellers, Mr. W. P. Novelli James (W. J. Bush & Co., Ltd.) was unanimously elected Chairman for the current year. Mr. James has been identified with the Association since its inception in 1894, and is a patron. He occupied the position of Deputy Chairman in 1917, and has served on the Entertainment Committee and the Committee of the Life Governorship Association.

THE DIVINE AFFLATUS has from time immemorial been associated with the drug-trade, and one of the latest exponents is Mr. Samuel Wyatt, chemist and druggist, of Knightstone, Highfield Road, Hall Green, Birmingham. A dainty volume of verse, entitled "The Light of Love"—a product of the muse of Mr. Wyatt—has just come into our hands. It is published by Simpkin, Marshall & Co., Ltd., London, and by Eld & Blackham, Ltd., Birmingham, at 1*s.* 6*d.*, and no doubt many brother pharmacists will be desirous of securing a copy. We understand that the author of these "poems for life's pathway" is a relative of Mr. Harold Wyatt, Ph.C., Bootle. Copies of the book may be obtained at the published price of 1*s.* 6*d.*, post free, from the author.

## Births.

FLOOD.—On December 28, 1917, the wife of William H. Flood, chemist and druggist, Durnsford Road, Wimbledon Park, London, S.W., of a daughter.

ROACH.—At "Wallsend," Harbour Terrace, Falmouth, on January 8, the wife of John Trewhella Roach, chemist and druggist, St. Ives, of a son.

## Marriage.

MOSS—WARINGTON.—At Harpenden Parish Church, on January 7, by the Rev. C. B. Longland, assisted by the Rev. Kean M. Pitt, rector of Harpenden, Captain Kenneth Neville Moss, R.E., elder son of Mr. and Mrs. Moss, Penns, to Dorothy, third daughter of the late Professor R. Warington, F.R.S., High Bank, Harpenden.

## Deaths.

BROWN.—At Dover, on January 1, Mr. Joseph Frederick Brown, Ph.C., President of the Dover Chemists' Association. Mr. Brown was registered as a pharmaceutical chemist in 1870.

CHESEBROUGH.—The death is announced in New York, on December 3, of Mr. Robert A. Chesebrough, second son of Mr. Robert A. Chesebrough, founder of the Chesebrough Manufacturing Co., aged fifty-one.

DIXON.—At Baden House, Prince's Avenue, Hull, on January 5, Mr. Edward Dixon, for many years chairman and managing director of Blundell, Spence & Co., Ltd., Hull and London, aged sixty-seven.

GILBART.—At Maclise Road, West Kensington, London, W., on January 1, suddenly, Mr. Sidney Frederic Gilbart, chemist and druggist, 331 Hither Green Lane, S.E., aged fifty-eight. Mr. Gilbart, who had suffered with heart-trouble, was found lying behind the counter in the drug department of the West Kensington branch of the Civil Service Supply Stores, and expired shortly after. At the inquest, which took place on January 5, death was found to have been due to pneumonia and heart-disease.

HAWKSWORTH.—At Lea Road, Gainsborough, on January 6, suddenly, Mr. John Lewis Hawksworth, chemist and druggist, aged seventy-two. Mr. Hawksworth was in business at Daventry for twenty-eight years, and retired to Gainsborough, his native town, about three years ago.

NUNN.—On December 29, 1917, Mr. Charles Grimwood Nunn, chemist and druggist, late of Oxford Road, Ipswich. Mr. Nunn was in business before August 1, 1868.

ROBINSON.—At Cottingham, on January 6, Mr. Thomas Ward Robinson, chemist and druggist. Mr. Robinson, who had been in failing health for the past two years, carried on business for nearly thirty years at 233 Anlaby Road, Hull, and previously at Myton Place and Derringham Street, Hull. He was a Past-President and Treasurer of the Hull and District Pharmacists' Association, and was highly esteemed. He is survived by a widow and two daughters.

SMITH.—At 3 Ivor Terrace, Westgate-on-Sea, on December 20, 1917, suddenly, Mr. John H. K. Smith, for twenty-five years a much-esteemed member of the staff of Mr. D. T. Evans, chemist and druggist, Margate.

TRICK.—At "Stanhope," New Barnet, on January 7, after a few days' illness, Ellen Elizabeth, wife of Mr. William Burrows Trick, J.P., chemist and druggist (Lewis & Burrows, Ltd.), aged sixty-five.

VINT.—At Ingleside, St. Leonards-on-Sea, on December 26, 1917, Marion, third daughter of the late Mr. Thomas Dickinson Vint, chemist and druggist.

**Died on Service.**

BARR.—Mr. William Hewitt Barr, only son of Mr. John Barr, of Glasgow, and grandson of Mr. Alexr. G. Barr, partner in Kirkpatrick, Barr & Paton, chemical-merchants, 4 Cullum Street, London, E.C., who joined the Flying Corps and was training at Hastings, was accidentally killed there by a tramcar on January 1. He was seventeen years of age.

HARTLEY.—Private Samuel Hartley, Labour Corps, has been killed on service. Before joining the Army he was with James Woolley, Sons & Co., Ltd., wholesale and manufacturing chemists, Victoria Bridge Street, Manchester.

LORD.—Lance-Corporal Robert Lord, London Regiment, has died of wounds received in action, aged twenty-eight. In civil life he was with Mr. William Crompton, chemist and druggist, Bolton Street, Bury (Lancs).

PARKER.—Second-Lieutenant Willie Parker, West Yorkshire Regiment, has died from the effects of gas poisoning. Lieutenant Parker served his apprenticeship with Mr. F. Mallinson, chemist and druggist, Heckmondwike, and was subsequently with Needhams, Ltd., at Huddersfield. He enlisted in March 1915, and was granted his commission in August 1917.

# Trade Notes.

SECTO POMADE is a new insecticide for body-vermin. It is made by Cupal, Ltd., Blackburn.

PULVERETTE LECITHIN.—The price of these is 2*s.* per 100, not as stated in our note last week (p. 40).

DORMIGENE.—This is the brand name for brom-isovaleryl-urea manufactured by Allen & Hanburys, Ltd. It is sold in tubes of ten tablets, retailing at 2*s.* 9*d.*

OZOMINT TOOTH-PASTE.—This product of Cuxson, Gerrard & Co., Ltd., Oldbury, is packed in large tubes which sell at 1*s.* 3*d.* retail. It is a very pleasant paste to use.

MIDGLEY'S SOAPS.—In the advertisement in our last issue of Charles Midgley, Ltd., the price of White Rose soap was wrongly given. It should be 1*s.* 6*d.* per box of three tablets.

B. W. HAIR & SON, wholesale druggists, 104 High Holborn, London, W.C. 1, are sole agents for Great Britain and the Colonies for Papier D'Asie and Le Nabob paper, made by the Société Asie of France.

SPHAGNOL.—The Peat Products (Sphagnol), Ltd., 19 Queenhithe, Upper Thames Street, London, E.C. 4, insert in this issue a request that chemists will stock sphagnol, as several complaints have been received that it is unobtainable locally.

FRUIT LAXATIVES.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, have reduced the price of fruit laxatives, which are a palatable product that children and grown-up readily take in place of castor oil and Epsom salts.

EVANS' SALVARSAN.—The Local Government Board have approved for supply by public authorities the salvarsan made by Evans Sons Lescher & Webb, Ltd. The prices which are to be charged to public bodies have also been fixed.

REVISED PRICES.—Dr. Chas. Rooke, Ltd., Leeds, announce new and revised prices of Dr. Rooke's Solar elixir, Rheumatic, Lixile, Oriental pills, and golden ointment, also Crosby's balsamic cough elixir and "Kre-Ozone." The minimum retail prices are fixed at face-values. A notice is also given regarding the exchange of old or soiled stock.

PRICE-LISTS.—Carnegie Bros., 227-229 Essex Road, London, N. 1, issue an eight-page list of pharmaceutical chemicals which they are able to supply to advantage, and invite inquiries for wholesale quantities.—Magnus, Mabee & Reynard, Inc., 257 Pearl Street, New York City, U.S.A., have issued their December wholesale price-list and market report of essential oils, chemicals, synthetic drugs, etc., copy of which they will send on application.

TOPICAL LABELS.—James Townsend & Sons, chemists' printers, Exeter, have produced some smart labels for "glycerin substitute" adapted for use on packages for retail sale. The firm has also issued small slips in regard to notifying purchasers that the preparations to which these are attached have been modified to meet war emergencies. There are several varieties of these labels; all are useful in the pharmacy, and help to bring to the customer's notice the fact that alterations have been made in the articles sold.

EUPEPTON.—Before the outbreak of war bacteriologists almost always employed a German make of peptone as a culture-medium. In those days our scientists would not look at home-made products if German goods could be procured, but now that the scales have fallen from our eyes most scientists look differently on British products. We are glad, therefore, to note that Allen & Hanburys, Ltd., 37 Lombard Street, London, E.C. 3, have produced a superior peptone for bacteriologists' use, and have placed this on the market under the name "Eupepton." A sample we have examined shows that the product is white, and of great purity. Eupepton should be brought to the notice of bacteriologists.

POTASH SCARCITY.—The Dow Chemical Co., Midland, Mich., U.S.A., ask us again to emphasise the fact that there is a shortage of potash salts in the Allied countries, and that every effort should be made to use the corresponding sodium or ammonium salts. In the case of sodium bromide, it has been shown that the sodium base has a distinct advantage over potassium. Potassium salts need not be employed at all in those articles over which chemists have control, but physicians, who are notoriously conservative, will probably continue to order potassium bromide. We emphasised this point in the first number of THE CHEMIST AND DRUGGIST published after the outbreak of war in 1914, and on many occasions since attention has been called to the matter. A word to doctors may not be out of place when they visit the dispensing chemist.

# More New Year Honours.

AMONG THE APPOINTMENTS to the Order of the British Empire for services in connection with the war we note the following: Sir Richard C. Garton (Garton & Co.), founder of the Garton Foundation for Promoting Study of International Policy and Economics, receives a Knight's Grand Cross (G.B.E.). The following become Knights Commanders (K.B.E.): Mr. James Cantlie, M.B., F.R.C.S., who is a member of the Council and Executive Committee Red Cross Society; Mr. Bignell G. Elliott, who is Chairman of the Commercial Travellers' Schools; Dr. Walter M. Fletcher, M.D., D.Sc., F.R.S., Secretary, Medical Research Committee; Mr. James Galloway, C.B., Chief Commissioner for Medical Services to Ministry of National Service; Mr. Kenneth W. Goadby, who is a leading bacteriologist and pioneer in medical research, member of War Office Committee for the Study of Tetanus, and has carried out valuable investigations since the war into treatment of septic wounds and gas gangrene; Mr. Gustave Jarmay, who is managing director of Brunner, Mond & Co., Ltd.; Mr. Robert Robertson, D.Sc., F.R.S., who is Superintending Chemist in the Research Department, Woolwich Arsenal; Mr. Charles J. Stewart, who is the Public Trustee; and Dr. William H. Thompson, M.D., who is Scientific Adviser to Ministry of Food. The Commanders (C.B.E.) include Lieut.-Colonel J. H. Anderson, Assistant Director of Medical Services, Australian Imperial Force; Prof. F. J. Cheshire, Adviser on Scientific Side of Optical Munitions Branch, Ministry of Munitions; Mr. Frank W. Garnett, President of the Royal College of Veterinary Surgeons; Mr. Henry Glendinning, chemical director Brunner, Mond & Co., Ltd.; Prof. W. R. Hodgkinson, F.R.S., Professor of Chemistry and Metallurgy, Ordnance College, Woolwich; Prof. William J. Pope, F.R.S., Professor of Chemistry University of Cambridge, member of the Panel of Board of Invention and Research, Admiralty; Col. R. D. Rudolf, Commandant in Medicine, Canadian Army Medical Corps; Mr. J. C. Stamp, D.Sc., Assistant Secretary to the Board of Inland Revenue; and Dr. T. H. C. Stevenson, Superintendent of Statistics, General Register Office. Among the Officers (O.B.E.) are Mr. Geoffrey T. Bennett, F.R.S., Fellow and Mathematical Lecturer, Emmanuel College, Cambridge, Scientific Assistant to one of the Admiralty Departments; Mr. Herbert E. Cuff, M.D., F.R.C.S., Principal Medical Officer to the Metropolitan Asylums Board; Mr. Clive Cuthbertson, F.R.S., Contraband Department, Foreign Office; Dr. Robert Crosbie Farmer, D.Sc., Ph.D., Research Department, Woolwich; Dr. J. A. Harker, D.Sc., F.R.S., Munitions Invention Department; Major H. B. Lewers, Assistant Director of Medical Services, Australian Imperial Force; Captain E. Distin Maddick, F.R.C.S.; Mr. Percy Matthey, managing director of Johnson, Matthey & Co., Ltd., London; Dr. Edward Mott Owen, Ph.D., Head Chemist at H.M. Factory, Oldbury, Ministry of Munitions; Dr. John Robertson, M.D., Medical Officer of Health, Birmingham; Dr. E. J. Russell, D.Sc., F.R.S., Technical Adviser Food Production Department, director of the Rothamsted Experimental Station; Mr. George Stubbs, F.I.C., Superintending Analyst, Government Laboratory; Mr. W. J. Uglow Woolcock, Secretary of the Pharmaceutical Society and Assistant Director of Army Contracts; and Mr. James Young, Senior Instructor in Science, Royal Military Academy. The longest list is that of Members (M.B.E.), and it includes Mr. Sydney W. Attwell, Assistant National Physical Laboratory; Mr. A. E. Royer, M.R.C.V.S., Conducting Officer, Horse Transport Duty; Mr. Owen Aly Clark, J.P., chemist and druggist, and Chief Officer, Special Constabulary, Bury St. Edmunds; Mr. B. P. Dudding, Assistant National Physical Laboratory; Mr. F. H. Dupré, F.C.S., Official Chemical Adviser on Explosives to Home Office and Ministry of Munitions; Dr. J. J. Fox, D.Sc., F.I.C., First Class Analyst Government Laboratory; Prof. Percy Groom, D.Sc., Head of Section of Technical Department of Air Board; and Mr. G. H. Perry, Deputy Head Chemist, Inspection Department, Woolwich Arsenal.

# Information Department.

## INFORMATION WANTED.

**Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.**

231/7. "Salisbury" sanitary-paper.
230/3. "Uneeda" trench-muffler.
229/65. Jones' Epsom Court Plaster: actual maker.
228/58. Davidson's teats.

# Observations and Reflections.

By Xrayser II.

**Your Last Week's Article**

on Educational Reconstruction, to be fully understood, must be read in connection with your previous leader of August 18, 1917, on the same subject. So read, it is a valuable guide to our future course in this particular, and should make clear to every pharmacist the immediate need of preparation on our part to meet the demands that will be made upon us. The most important question of all, from our point of view, is the necessity of seeing that the instruction given in continuation schools is really of such a character that the certificates of examination at the end of the course could be accepted by the Pharmaceutical Society in lieu of examination in the respective subjects as part of the Minor. You suggest in the former of the two articles to which I have referred that these school certificates might be accepted as a substitute for an assistant's examination. Here I am afraid I must demur. They would no doubt, as in the case of the Minor itself, lighten such an examination on the theoretical side, but nothing can supply the place of practical acquaintance with shop and dispensary work in the qualification of an assistant.

**May I Emphasise your Question**

to the Council with regard to war students? Your recent article on the subject has not, so far as I am aware, moved the powers that be to any pronouncement, though there must be an increasing number of men every week to whom their future treatment at the Society's hands is a matter of the very gravest anxiety. This is a case in which it is emphatically true that *bis dat qui cito dat.* The Society ought to be not only generous but prompt in reassuring them; indeed, it is impossible to be generous unless prompt too. I hope it is not a case in which, though adopting your suggestion, the fear of being thought to do so will cause delay in doing it.

**The New South African Poison Schedule**

is in several respects an improvement upon our own. I suppose the fact that lead and diachylon are not, and that coca is, included point to different conditions in the two countries. The South African is generally much more precise than ours in its definitions. It is a curious fact that in ours strychnine is not included by name, though preparations and admixtures containing 0.2 per cent. of strychnine or more are. In South Africa poisonous glucosides are classed with poisonous alkaloids; vermin-killers are specifically included, as they should be in ours; so is chlorodyne; so is acetanilide; so is phenazone. White precipitate, on the contrary, is not, and veronal is in the second division. But, taking it altogether, the South African is the better of the two.

**The Book of the Rothamsted Experiments,**

to which you referred the other week, is, I find, published by Murray, at 10*s.* 6*d.* net, and is, I do not doubt, well worth its price. A less expensive volume, however, written by Mr. E. J. Russell, D.Sc., who is responsible for the revised edition of the Rothamsted book, contains practically everything on the subject of agricultural chemistry that the ordinary pharmacist needs to know. This is the "Soils and Manures" volume of the Cambridge Farm Institute series, published at 3*s.* net. It is based mainly on the results of the Rothamsted experiments, and is illustrated by photographs taken there. Its descriptions of the methods of soil and manure analysis are at once adequate and simple, and its account of the practical application of science to agriculture and the results obtained at Rothamsted and elsewhere is sufficient for its purpose. Rothamsted, I may add, is close to Harpenden, only a few miles beyond St. Albans, and is well worth a visit.

**Colds**

may not be caused by cold, but, if experience is any guide at all, cold makes us more liable to catch them. I am almost inclined to go further. The very worst cold I ever had followed close upon a bath in the sea during a cold rain-shower. The two temperatures did the trick, without (I dare aver) the help of any infection. Be this as it may, no amount of scientific demonstration will ever convince me that a chill does not sometimes induce a cold —or that "a drop of something hot" will not sometimes prevent one. Does the sun put out the fire? Scientists have proved that it does not, but I never met one whose wife believed it. There is little doubt that the scientists were right, but it does not follow that I am wrong in my belief about colds.

# Proprietary Articles Trade Association.

## Council Election.

MANUFACTURERS' SECTION.—The twelve retiring members and one new candidate, Mr. A. Nathan, of Glaxo, were nominated. Voting papers to the number of 309 were sent to members of the Section. There were seventy-five returned, of which one was spoilt. The result was as follows:

| | |
|---|---|
| Dr. J. J. Pilley (Mellin's Food, Ltd.), Peckham ... | 70 |
| T. Hinds (Scott & Bowne, Ltd.), 10 Stonecutter Street | 70 |
| Sanitas Co., Ltd., Locksley Street, Limehouse, E. ... | 69 |
| J. Steedman & Co. (J. A. South), 272 Walworth Road | 69 |
| J. C. Umney (Wright, Layman & Umney, Ltd.), Southwark ... | 69 |
| A. Ridout (J. Grossmith, Son & Co.), Newgate Street | 67 |
| Page Woodcock, 11 King Henry's Walk, N. ... | 67 |
| J. Godber (Newton, Chambers & Co., Ltd.), Sheffield | 64 |
| F. W. Powell (Thos. Powell, Ltd.), Blackfriars Road ... | 64 |
| B. W. Beetham (Beetham & Son), Cheltenham ... | 63 |
| G. Whelpton & Son, Ltd., 4 Crane Court, E.C. ... | 62 |
| S. Kutnow (S. Kutnow & Co., Ltd.), 41 Farringdon Road | 59 |
| A Nathan ("Glaxo") 155 Great Portland Street, W. ... | 38 |

The first twelve named above will constitute the Manufacturers' Section of the Council for 1918.

WHOLESALERS' SECTION.—Only twelve (the retiring members) were nominated. They will constitute the Wholesale Section of the Council for 1918. They are as follows:

Barclay & Sons, Ltd., 95 Farringdon Street, E.C.
G. H. Burroughs (John Thompson, Ltd.), Liverpool.
Butler & Crispe, 82 Clerkenwell Road, E.C.
W. Edwards & Son, 157 Queen Victoria Street, E.C.
Evans, Gadd & Co., Ltd., Exeter.
Hirst, Brooke & Hirst, Ltd., Leeds.
May, Roberts & Co., Ltd., 9 Clerkenwell Road, E.C.
J. McCaig (Evans Sons Lescher & Webb, Ltd.), Liverpool.
F. Newbery & Sons, Ltd., 27 Charterhouse Square, E.C.
Raimes & Co., Micklegate House, York.
Sangers, 42A Hampstead Road, N.W.
James Woolley, Sons & Co., Ltd., Manchester.

RETAIL SECTION.—There were thirteen nominations for twelve vacancies. Voting papers to the number of 5,508 were sent by post, and of these, 1,372 were returned, including thirty-seven spoilt and thirty-six too late to be counted. The valid votes were recorded as follows:

| | |
|---|---|
| W. L. Currie, Glasgow ... | 1212 |
| J. B. Francis, Wrexham ... | 1208 |
| S. N. Pickard, Ossett ... | 1198 |
| H. W. Colley, Grimsby ... | 1193 |
| Jonah Milner, Greenwich ... | 1193 |
| P. F. Rowsell, Exeter ... | 1183 |
| A. R. Keith, Poplar ... | 1182 |
| R. Feaver Clarke, Gravesend ... | 1180 |
| J. G. Atkinson, Upper Norwood ... | 1169 |
| John Keall, Wandsworth ... | 1168 |
| G. P. Pond, London ... | 1123 |
| Dr. A. J. Barnes, Dublin ... | 1101 |
| Hugo Wolff, Tottenham ... | 470 |

The first twelve in above list will therefore constitute the Retail Section of the Council for the year 1918.

THE BRITISH ORGANOTHERAPY CO., LTD., announce that the company has transferred its offices to 22 Golden Square, Regent Street, London, W. 1.

MR. COLIN JENKINS, chemist and druggist, Haverfordwest, has purchased the old-established dispensing and retail business of Mr. A. Arthur, Nott Square, Carmarthen.

MACTAVISH & CO., LTD., is the new style of Mactavish & Lehmann, chemists and druggists, 1 North Soochow Road, Shanghai. For many years the directors and shareholders have been exclusively British.

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**S.V.R. — S.V.M.**

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D.1. Cale Distillery, Hutton Road, LAMBETH, S.E. 11.

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ART OF DISPENSING. (9th Ed.) 596 pages. 6/-, by Post 6/5

CHEMISTS' DICTIONARY OF SYNONYMS. 2/6, by Post 2/9

THE CHEMIST AND DRUGGIST, 42 CANNON ST., E.C. 4.

*Index Folio 30*

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Sparkling Phosferrade, Puritzer, Dry Ginger Ale, &c.

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*are used in place of the corresponding Syrups.*

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# Editorial Articles.

## The Title "Chemist."

THERE is a good deal of secret diplomacy in pharmaceutical quarters, and some people think there is more than there need be. As an instance may be quoted the attitude of the officials of the Pharmaceutical Society in regard to the coveting of the title "chemist" by professional chemists. One has to turn to the November issue of the "Proceedings of the Institute of Chemistry," just published, to obtain information as to what took place at the conference on July 20 between representatives of the Institute and the Pharmaceutical Society. Mr. White, who was present—in a dual capacity apparently, as he is a member of the Council of the Institute and also President of the Pharmaceutical Society—said that if the Council of the Pharmaceutical Society had the power to help the Institute in the matter without in any way injuring their own members, he felt sure that they would do what they could, but there were a few points which chemists other than pharmaceutical chemists had probably not taken into consideration in connection with it:

1. The Pharmacy Act of 1908 had given to trading companies the right to use the word "chemist," provided that a qualified pharmaceutical chemist or chemist and druggist was in charge of the business.

2. Although the Act of 1908 had reserved to the properly qualified pharmaceutical chemist the title "pharmacist," the Society had found that they were unable to restrict the use of the word "pharmacy."

3. The Society had never interfered with the use of the title "chemist" by analytical, consulting, and technological chemists, provided they did not keep open shop for the sale or dispensing of poisons or practise as chemists and druggists.

4. Supposing that the Society were in a position to induce their members to relinquish the use of the word "chemist," it would be reasonable for them to ask that they should not suffer any detriment by doing so. There was at present no sort of guarantee that powers could be secured to prevent its adoption by all herbalists and drug-store keepers and the chemists referred to in (1), over whom the Society had no control, as well as by the chemists represented by the Institute. There were about 9,500 pharmacists' shops in the country, and probably 1,500 of them were under the control of powerful trading companies, who would strongly object to any interference with their rights; but supposing the word "chemist" were to be eliminated from all pharmaceutical and druggists' shops, the cost of altering facias, labels, bottles, stationery, etc., etc., would probably represent a quarter of a million pounds. Could the Institute or any body provide the necessary funds to effect the alterations?

5. The protection granted to the "chemist" under the Pharmacy Acts only extended to the selling and dispensing of certain poisons, and free trade existed in drugs and chemicals outside the substances in the poison schedule. The protection, such as it was, was only granted with a view to safeguarding the public from criminal or negligent use of poisons.

Mr. White added that he believed very many pharmaceutical chemists would prefer to use the word "pharmacist," and the Society, in its publications and otherwise, had rather encouraged such use. He undertook to raise the matter again with the Council of the Society, possibly with a view to preparing a statement of their opinions which could be used for the information of all persons interested.

## Insurance Dispensing Difficulties.

### II. Proprietaries.

SINCE all drugs and medicines considered "proper" may, under the provisions of the National Insurance Act, 1911, be supplied for the use of insured persons, it follows that there is nothing to prevent the prescribing and dispensing of proprietary medicines in any particular area, unless and until the Insurance Committee for that area is persuaded to deem them not proper. This applies equally in the case of all proprietary medicines, and it is remarkable to what an extent even stamped nostrums are prescribed and dispensed for the use of panel patients in some parts of the country. But the great majority of the proprietary medicines ordered in Insurance prescriptions are compressed tablets, concentrated mixtures, elixirs, pills, syrups, serums and vaccines, lozenges and pastilles, capsules, soaps, ointments, and other specialised products supplied only by particular firms. At one Pricing Office, where prescriptions for proprietary medicines are common, the list of such articles priced for during the past two years includes the names of nearly a thousand different preparations. If some doctors had their way, special brands or makes of official galenicals would figure in this and similar lists, but the prevailing rule is to price proprietary brands of ordinary galenicals in strict accordance with the Tariff. Thus, tinct. opii or ung. zinci is priced the same in all cases, in accordance with the standard price-list, whether the prescription indicates some particular make or not, and pharmacists who are not aware of this would do well to make a note of the fact. If, however, the galenical preparation is supplied by the maker under a specific name, the position is different, unless proprietary medicines of all kinds have been banned by the local Insurance Committee. Foods, of course, can only be supplied when ordered in Sanatorium Benefit prescriptions. In some areas stamped proprietaries are not allowed, but in others there is no restriction in this respect, and the P.A.T.A. list of protected prices is in constant use as a work of reference, but only as a guide to the cost prices of the different articles. Chemists who pride themselves upon steadfastly keeping to their engagements may be surprised to learn that the P.A.T.A. restrictions are consistently infringed in the pricing of prescriptions ordering preparations with fixed minimum prices. This rule applies indifferently to stamped proprietaries and to special preparations which are only supplied by the makers on the understanding that fixed minimum prices are charged when the preparations are dispensed as ingredients of other medicaments. It may be recalled that this was one of the points to which attention was directed by the Progressive Pharmacy Club in the famous draft memorial, wherein it was declared that "it is unreasonable for Pricing Offices to lay us open to reproach and possible serious business difficulties by under-pricing preparations which we are not permitted to supply at less than fixed minimum prices." This point is still awaiting attention and ought to receive the serious consideration of the Council of the Proprietary Articles Trade Association, as well as that of manufacturers who make it a condition of supply that their preparations shall not be dispensed below fixed minimum prices. During the past two years there have been continual changes—mostly in the direction of increased charges—in the wholesale prices of proprietaries, beginning with the great advances consequent on the imposition of a higher rate of stamp-duty, and since marking the largely increased cost of production. But it is more than doubtful if all the changes in wholesale prices have been noted promptly and generally at Pricing Offices, especially owing to the great difficulty experienced in reprinting and circulating price-lists and keeping them up to date. The best preventive of loss in this direction is for the panel chemist to note carefully all the increases in the prices of proprietaries received into stock, and to indicate the actual net cost upon every prescription ordering a proprietary preparation. In this way he will both protect his own interests and help his fellow chemists, by directing attention at the Pricing Office to price changes which might not otherwise be recorded so promptly. Panel chemists will find that they can best guard themselves against loss by regularly advising Pricing Offices on prescriptions ordering proprietary preparations of such price changes, especially increases, as inevitably occur from time to time. Much helpful information can often with advantage be recorded on the backs of prescriptions, and a little trouble taken in this way will amply repay the panel chemist.

## The Buchu Market.

ABOUT five years ago the Cape Government undertook the protection of the buchu industry by restricting the area and periods of collection, and by the imposition of a tax on the gathering, which has been raised on several occasions, and which we believe stands at 3*s*. per lb. The result of this excessive export tax on a useful drug has become more apparent year by year by the greatly diminished exports from the Cape (see the figures below) and the lack of interest shown in the drug, especially by the United States, who were formerly the largest consumers, as for some time past, we understand, the large proprietary-medicine makers have used an indigenous substitute, as they cannot afford to pay 6*s*. per lb. for clean green leaf of the *Barosma betulina* variety. The matter has lately been engaging the attention of officials at the Cape, as we note in the "South African Journal of Industries" (September 1917). Dr. E. P. Phillips, Botanical Assistant, has brought together much of the available information published on buchus, with a view to stimulating interest. Dr. Phillips deals with the commercial species, chemistry, uses, collecting and curing, adulterants, cultivation, exports and prices, distillation, distribution, and literature of the subject. Much of the information set out is common knowledge, but there are several points of interest which have not hitherto received publicity. Exports and prices are given in detail from the year 1872 to 1916. It is curious that from 1900 to 1912 the average yearly export was well over 200,000 lb., but from 1913 onwards (since the imposition of the tax on collection) there has been a considerable drop. We give the most interesting figures below:

| Year | Quantity Exported | Value | Average Price per Lb. |
|---|---|---|---|
| | Lb. | £ | *s. d.* |
| 1900 | 229,197 | 4,367 | 0 4 |
| 1901 | 220,306 | 5,665 | 0 6 |
| 1902 | 161,570 | 4,775 | 0 7 |
| 1903 | 262,454 | 8,055 | 0 7 |
| 1904 | 251,635 | 2,498 | 0 6 |
| 1905 | 231,122 | 5,505 | 0 5 |
| 1906 | 290,106 | 7,769 | 0 6 |
| 1907 | 291,334 | 9,201 | 0 7 |
| 1908 | 243,422 | 7,284 | 0 7 |
| 1909 | 264,126 | 9,666 | 0 8 |
| 1910 | 273,325 | 24,228 | 1 9 |
| 1911 | 212,082 | 29,647 | 2 9 |
| 1912 | 223,021 | 38,264 | 3 5 |
| 1913 | 163,812 | 32,471 | 3 10 |
| 1914 | 149,113 | 27,558 | 3 8 |
| 1915 | 157,061 | 23,767 | 3 0 |
| 1916 | 130,794 | 21,685 | 3 3 |

These figures, however, do not give any indication of the quantities of the various species exported. Dr. Phillips supplies the following information in regard to prices:

In 1910 *B. betulina* fetched 3*s.* 4*d.* to 4*s.* for the best lots, *B. crenulata* 1*s.* 5*d.* to 2*s.*, and *B. serratifolia* 2*s.* to 2*s.* 3*d.* per lb. The latest report (May 1917) shows that good round leaf (*B. betulina*) has risen within the last six months from 5*s.* to 6*s.* 3*d.* per lb. These high prices (5*s.* to 6*s.* 3*d.*) only refer to the best samples of *B. betulina*, and we find that the average price per lb. of the quantity exported is very much below this. For example, during a period of eleven months 123,771 lb. was received in London, valued at 20,568*l.*, which shows that the average price was about 3*s.* 4*d.* per lb., proving that a lot of inferior leaf was exported. From this, however, expenses of freight, collecting, duty, commission, etc., have to be deducted to arrive at the net price received by the consignor. During the last seventeen years (1900-1916) the average price was 1*s.* 7*d.* per lb.—the highest price, 3*s.* 10*d.*, in 1913, and the lowest, 4*d.* per lb., in 1900. These figures give no indication as to the prices paid for the various grades.

Dealing with the future of the buchu industry, Dr. Phillips puts forward the following points, which should occupy the close attention of those interested:

1. Whether it will pay to cultivate the various species of *Barosma* for which there is an outlet, especially *B betulina*.

2. The gathering of the leaves at the right time, and with the proper curing, so as to obtain a good dark-green leaf with the maximum quantity of essential oil.

3. The proper grading of consignments, which should be quite free from adulterants.

Dealing with the question of collecting and curing, we note that it is customary to collect the leaves during January, February, and March, and this was formerly done by coloured people cutting down the plants or uprooting them; this has done a vast amount of damage in some localities which once proved rich fields of buchu. As regards the measures of protection which have been taken by the Government at various times, it is interesting to note that further regulations are under consideration by the Provincial Council. We gather that a certain amount of poaching goes on by unscrupulous dealers in the prohibited areas. Dr. Phillips suggests that while the bulk of the buchu is gathered and dried in the haphazard manner evidently in vogue it will be difficult to control the industry properly, whereas if it can be shown that the cultivation is a paying proposition it is more likely that a standard-quality buchu can be put on the London market, and if it is exported in sufficient quantity and the price is favourable, there is no reason to doubt that it will become an established industry. If the Government could compel exporters to grade the product, and allow no adulterated consignments to leave the country, it would give London buyers much more confidence in the drug.

## Reconstruction Problems.

### IV.—Education (*continued*).

The consideration of this subject so far as it was dealt with last week brought us to the Intermediate examination, which a student might take at the age of eighteen. The matter of the hours lectures or work which should be accepted from candidates for the Intermediate examination was purposely reserved because it involves the question of whether instruction in the science subjects—botany, chemistry, and physics—can be obtained readily by the average apprentice. Our view has always been that the Council ought not to impose a curriculum of study and training until the means for fulfilling it are assured. It is for the Council to find out if it is possible for all apprentices conveniently to obtain the necessary instruction at schools of pharmacy or technical institutes, otherwise the country students might be at a disadvantage compared with the young men who live in large towns. Pharmacy, it must be remembered, is not a business preserve of the well-to-do, and hence it is necessary also to see that the courses of study are obtainable at a reasonable fee. The Government intention is doubtless to provide free courses in certain subjects at continuation schools, but whether the classes in the particular subjects required by pharmacy students will be available on these terms is not yet known. When attendance at continuation schools becomes compulsory many more educational establishments will be needed, and doubtless will be forthcoming. We suggested early last year that the principals of all the schools of pharmacy should be consulted in regard to the provision of science instruction. Pharmaceutical teachers might well be constituted into a consultative Educational Committee with other educational experts, as this matter is too important to be left in the hands of two or three persons, however eminent they may be. What is wanted is the broad outlook of a Committee free from the trammels of officialism, but with specialised knowledge of the educational needs of pharmacy. We may now assume that the courses of study could be provided free or at a reasonable rate for the two years within which the classes are taken. On the assumption that the minimum requirements of the Education Bill will be 640 hours in the two years between sixteen and eighteen, we have now to consider how this can be allotted so as to provide the certificates in scientific subjects which would be acceptable as an instalment of the Qualifying examination. The Education Committee referred to would work out and agree upon the number of hours which a student should spend at each subject. Assuming that 500 hours would suffice, we have a residuum of seventy hours a year for other subjects. It is not known yet whether it will be compulsory for continuation students to take a certain number of hours in such subjects as mathematics, but the suggested 500 hours for botany, chemistry, and physics needed for the Intermediate allows some freedom in this respect. At this stage our suggestion is that, along with these certificates, at the age of eighteen a student should be allowed to present to the pharmaceutical authorities certificates of having been engaged in dispensing for an agreed number of hours, so that possession of the certificates in science subjects and in this technical subject should constitute a test which could be accepted as an assistant's qualification. The student might be certified as qualified to act as a "dispenser to a chemist," thus giving him a higher status than that given by the Apothecaries' Society, whose certificates only declare those who pass the assistants' examination as fit to dispense for apothecaries. The idea is worth working out. Certificates of an elementary knowledge of pharmacy and poisons might be added, or a certificate in pharmaceutical Latin might be presented at this stage. The knowledge should easily be acquired in the business where the young man is employed, but could be readily provided by schools of pharmacy. The classes in technical subjects could also be held in the evening, as the requirement of day classes is made only for the Government continuation classes and the subjects taught therein. A distinct encouragement would thus be offered to students to aspire to something more than the compulsory requirements. Another reason why the matter should be considered seriously is that the menace of the apothecaries' assistants would disappear, even after the adoption of the new regulation for that examination, which in July will require a nine-months' pharmacy "curriculum" from candidates in place of the six months' needed at present.

## Veronal a Part I. Poison.

On and after Monday, January 14, the following group of poisons will be in Part I. of the Poison Schedule:

Diethyl barbituric acid and other alkyl, aryl, or metallic derivatives of barbituric acid, whether described as veronal, proponal, medinal, or by any other trade name, mark, or designation, and all poisonous urethanes and ureides.

These poisons were placed in Part II. of the Poison Schedule on April 14, 1913, but following a resolution of the Council of the Pharmaceutical Society and the advertisement in the "London Gazette" the poisons are transferred to Part I.

The Milk (Amendment) Order, 1917, which came into force on December 31, 1917, prohibits the addition of any colouring-matter to milk intended for sale.

# Society of Chemical Industry.

AT A MEETING of the London Section held at Burlington House on January 7, Dr. Charles A. Keane (Chairman) announced that, the Society having been turned out of its premises in Westminster, a habitation had at last been found in Central House, 46 and 47 Finsbury Square, E.C. The premises there not only promised good accommodation for the staff, but it was hoped that room might also be available for the social gatherings of the Chemical Industry Club.

THE SECRETARY RESIGNS.—After alluding to changes in the form of the Society's journal, the rules, and the election of a new member of Committee, Dr. Keane intimated that Mr. T. D. Morson had, to the universal regret of the members, been compelled to resign the secretaryship of the Section. This was solely due to the increasing pressure of Mr. Morson's business and his inability to give the requisite time to the work. The Committee had been fortunate in securing the consent of Dr. Stephen Miall to take up the secretarial duties, and members were to be congratulated on the fact. The Chairman then asked that thanks be tendered to Mr. Morson for his services to the Section, especially during the difficult period of the war. Mr. Morson had managed, by his energy, tact, and courtesy, to keep up an excellent attendance at the meetings. He had secured papers on suitable and topical subjects, and he had also been instrumental in bringing together exhibits of particularly interesting specimens of chemical products manufactured as a preliminary to the capture of German trade. As an act of penance, Mr. Morson had consented to contribute a valedictory paper. The Chairman's tribute was received with much applause, and Mr. Morson briefly thanked him and the Section generally for their co-operation during his 11½ years' connection with the Section. To him it had been an intensely interesting and an intensely happy time. Prefacing his running commentary on the subject he had selected—

TOXICITY OF METHYL ALCOHOL IN RELATION TO ITS INDUSTRIAL USES—he said a tremendous amount of work in this connection was associated with the name of one whom they all knew well—Mr. Thomas Tyrer. He likened Mr. Tyrer to the Fairy Godmother, whose beneficent influence was exercised to crush the Evil Spirits and to guard the Sleeping Beauty of British Chemical Industry. Mr. Tyrer had striven long and hard, but it needed a European war to bring his work to due fulfilment. With regard to his (Mr. Morson's) paper, it was a review of the published data on the subject, and he was fortunate in having at his disposal a very complete scientific laboratory and the services of his colleague, Dr. Roy, who, with his secretary, had prepared and tabulated the references. A complete search of the literature on the use of methyl alcohol and methylating agents generally had shown that a mass of information was available as to the toxic effects of methyl alcohol. The result of this search is placed at the disposal of the Society, with the object of showing that pure methyl alcohol, which is classified by the Customs and Excise authorities as "plain spirits" (and thus subject to the same rates of duty as ethylic alcohol), is, in fact, highly toxic, and therefore non-potable. Furthermore, the facts brought out in the paper show that pure methyl alcohol is the starting-point for many manufactures of the highest national importance. For these two reasons, therefore, it is hoped to show that unnecessary restrictions should no longer be allowed to stand in the way of the development of British chemical industry. Supplies of methyl alcohol before the war were obtained mainly from the United States, Canada, and France, but chiefly from Germany and Austria. It is desirable that the British Empire should be self-supporting in this respect, and the views of a prominent wood-distiller were given, which were to the effect that the products of wood-distillation are second only in importance to coal-tar distillation in the production of dyes and fine chemicals. So that success may be assured in competition with foreign manufacturers in the future, it is therefore imperative to encourage and expand the wood-distillation industry in this country, and the heavy tax on methyl alcohol must be removed. Pure methyl alcohol, according to this authority, is not produced to any extent in Britain, while only a fraction of the country's pre-war requirements of acetone, acetic acid, and acetates was produced at home. Another manufacturer suggested the substitution of a cheaper and equally efficacious substance for the denaturing of "methylated" and "industrial" alcohol, so that the whole of the crude methyl alcohol produced in this country could be rectified for essential industrial purposes. Mr. Morson then proceeded, in support of the claim that methyl alcohol is, in effect, a "key" chemical, to give a survey of its main uses in chemical industry. These included the manufacture of dyestuffs containing methyl groups, medicinal chemicals, formaldehyde and its derivatives, and photographic chemicals. Passing on to the main heading, he said that the toxicity of methyl alcohol had been a disputed point, but he proceeded to give the evidence of a well-known British manufacturer as to the fatal poisoning of three men, and the deleterious influence of methyl-alcohol vapours, leading to complete mental derangement and loss of vision, among his workmen. An enormous mass of evidence came from America, and the author is indebted to Dr. Casey A. Wood for much assistance. Dr. Wood stated that—

> "In the years 1903-1904 the late Dr. Frank Buller, of Montreal, and myself set about collecting the histories of cases of poisoning to that date. Doubtless many instances of wood-alcohol poisoning escaped this inquiry, but we found and reported 275 instances of death or blindness (sometimes both) directly traceable to drinking or inhaling the fumes of 'Columbian spirits' or some other form of 'deodorised' wood alcohol."

The conclusions these medical men came to were that methyl or wood alcohol in any of its forms, and all methylated preparations as well, are dangerous poisons, menacing both life and eyesight. They found that in America the spirit is used as an adulterant of, and substitute for, grain alcohol in cheap whisky and other alcoholic beverages, as well as in Jamaica ginger, lemon extract, and other extracts and flavouring-essences. It is also used largely in the preparation of many proprietary medicines, witch hazel, domestic liniments, bay rum, Cologne water, Florida water, and other perfumes. The author claimed that there was overwhelming proof of the toxicity of methyl alcohol, and suggested that henceforth pure methyl alcohol should be known by its scientific name of "methanol," and that it be labelled "Poison." As a further safeguard, the Customs Board should be authorised to sanction its use under the same conditions that apply to-day to the use of industrial alcohol, and free from all further taxation and Revenue control.

In the animated discussion which followed, it was pointed out by various speakers that there was no fear of a shortage of methyl-alcohol production in this country. As a matter of fact, the supply, it was stated, is much in excess of the demand at the present time. Correcting one statement in the paper, a speaker said that pure methyl alcohol *is* being produced in this country at the present time, and in considerable quantity, for the production of formaldehyde.

Other papers read included one on the "Rapid Estimation of Pyridine in Ammonia," by Messrs. T. F. Harvey, F.I.C., and C. F. Sparks (the work for which was carried out in the laboratories of Thomas Morson & Sons, Ltd.); "Corrosion of Lead Roofing" and "The Action of Rainwater on a Portland Stone," both by Professor J. S. S. Brame.

# New Companies and Company News.

**P.C. means Private Company and R.O. Registered Office.**

LONDON AND NEW YORK TRADING CO., LTD. (P.C.).—Capital 5,000*l*. Among the objects are to carry on business as importers, exporters, general dealers, manufacturers, chemists, druggists, etc. R.O., 24 Eastcheap, London, E.C.

STENHOUSE PILLS, LTD. (P.C.).—Capital 2,000*l*. Objects: To acquire goodwill of Stenhouse pills, originally the prescription of Sir Benjamin Brodie, and to carry on the business of wholesale and retail chemists, druggists, etc. Solicitor: J. Wormald, 10 Park Row, Leeds.

A. J. RIPPIN, LTD. (P.C.).—Capital 1,000*l*. Objects: To carry on business as manufacturing chemists, druggists, oil merchants and refiners, manufacturers of drugs, chemicals, oils, chemical and scientific instruments and apparatus, patent medicines, etc. Solicitor: W. W. Mills, 11 New Square, Lincoln's Inn, London, W.C. 2.

A. LURASCHI, LTD. (P.C.).—Capital 2,000*l*. Objects: To take over the business of a chemical and experimental glass-blower and barometer- and thermometer-maker carried on by A. Luraschi at 9 Kirby Street, Hatton Garden, also to carry on the business of general glass-blowers, makers of chemical and scientific instruments, etc. R.O., 9 Kirby Street, Hatton Garden, London, E.C.

THOMAS JACKSON (CLAYTON), LTD. (P.C.).—Capital 6,000*l*. Objects: To take over the business carried on by T. Jackson at Clayton, near Manchester, and to carry on the business of manufacturing chemists, sulphuric, nitric, hydrochloric, carbolic, and picric acid manufacturers, coke, tar, and gas producers, tar distillers, refiners of tar products, manufacturers of explosives, essences, dyes, and intermediate products, etc. Solicitors: C. Richards & Sons, Llangollen.

# Commentary on the Cocaine and Opium Regulation.

*Prepared for the meeting of the North London Pharmacists' Association on January 10, 1918, at the Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C.*

**Authorised Persons.**

Sales of cocaine and opium may only be made to the following "authorised persons":

1. A duly qualified medical practitioner.

This expression and "legally qualified medical practitioner" are defined in the Medical Act, 1858, to mean persons registered under the Medical Act. Certain medical men who are qualified but not registered are not, therefore, "authorised persons," nor are American and other foreign doctors who may be in this country included. The Medical Register, published annually by the General Medical Council, is the official list of qualified medical practitioners.

2. A registered dentist.

The names are given in the Dentists' Register, published annually by the General Medical Council under the provisions of the Dentists Act, 1878.

3. A registered veterinary surgeon.

The names are given in the Veterinary Surgeons' Register, published annually by the Royal College of Veterinary Surgeons.

4. A person, firm, or body corporate *carrying on the retail* business of a chemist and druggist under and in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908.

The words in italics replaced (December 5, 1916) the original wording, "entitled to carry on," which had the effect of making it necessary for dispensers in institutions, even when qualified chemists, to obtain permits to purchase cocaine and opium.

5. A person carrying on such business in Ireland under and in accordance with the provisions of the Pharmacy Act (Ireland), 1875, as amended by the Pharmacy Act (Ireland), 1875, Amendment Act, 1890.

The words "such business" have complicated this definition, because registered druggists under the Amendment Act, 1890, may not compound prescriptions, which are part of the "retail business of a chemist and druggist" in Great Britain.

6. A licentiate of the Apothecaries' Hall in Ireland.

Already included in 1. Probably repeated because apothecaries are in Ireland entitled to be registered as pharmaceutical chemists.

7. A person holding a general or special permit from a Secretary of State to purchase or to be in possession of the drug in question.

These are required by exporters, wholesale druggists, dispensers at public institutions, dental-supply houses, etc. (*See* Permits.)

The Home Secretary has power to direct that authorised persons convicted of any offence under the regulation or proclamations regulating the import or export of cocaine or opium shall cease to be "authorised" persons.

**"Cocaine" Defined.**

The alkaloids in coca-leaves are (1) cocaine, (2) cinnamyl cocaine, (3) cocamine, (4) isococamine, (5) tropacocaine or benzoyl pseudotropine, (6) hygrine. The decomposition-products of cocaine are benzoyl-ecgonine, methyl-ecgonine, and ecgonine. The proportion of the different alkaloids varies in leaves according to their origin. Cocamine is a heart-poison, and it is an impurity which should be rigidly excluded.

"Cocaine," in the Cocaine and Opium Regulation, refers to the alkaloid cocaine (methyl-benzoyl-ecgonine), and includes all

(1) Preparations.

*E.g.*, solutions of cocaine in almond oil, castor oil, and liquid paraffin employed as eye-drops or as throat and nose sprays, and ung. cocainæ, B.P.

(2) Salts.

The hydrochloride is most used; other salts employed in medicine are the carbolate, citrate, hydrobromide, lactate, nitrate, periodide, and salicylate.

(3) Derivatives.

Such as the decomposition-products (ecgonine, etc.), and perhaps the expression is intended to cover the alkaloids associated with cocaine—*e.g.*, tropacocaine (benzoyl pseudotropine) obtained from Java coca-leaves, which is employed in spinal anæsthesia. The term "derivative," strictly speaking, only applies to a substance produced by a molecular change in the alkaloid from which it is derived.

(4) Or admixtures prepared *therefrom* or *therewith*, and containing one part per thousand (0.1 per cent.; 1 gr. in ʒij, ♈ij.) or more of the drug.

The term "admixture" would seem to include all liquid or solid preparations of the alkaloid and its salts as met with in prescriptions—*e.g.*, eye-discs, dental anæsthetics, injections, suppositories, pessaries, ointment, plaster. Martindale states that the water-soluble salts are better than the fat-soluble cocaine, even in suppositories, bougies, and pessaries.

(5) Solid or liquid extract of the coca-leaf containing 0.1 per cent. or more of the drug.

The "drug" referred to in (4) and (5) is the base cocaine, so that a solution could contain one part per thousand of cocaine hydrochloride and be outside the regulation.

Paragraph (5) was added as an amendment on December 5, 1916; previously the *C. & D.* had been informed by the Home Office (August 11, 1916) that liquid extract of coca was included in the original regulation if it contained 0.1 per cent. or more of cocaine. Garsed (1902) found the percentage of cocaine in ext. coçæ liq., B.P. 1898, to average 0.38 and in the "miscible" liquid extract 0.091. Squire found 0.465 per cent. in ext. cocæ liq. A former standard in the U.S.P. VIII. was 0.5 in 100 w/v. Martindale states that the solid extract (prepared by evaporation of the liquid extract) contains 2 per cent. of coca alkaloids if prepared from coca-leaves with an alkaloidal strength of 0.5 per cent.

Weaker strengths than one in a thousand of cocaine may be sold without the formalities of the Cocaine and Opium Regulation, and others than "authorised persons" may be in possession of such mixtures, as they are not "cocaine" within the meaning of the regulation. It does not appear that coca-leaves are covered by the regulation, although they sometimes contain as much as 1.5 per cent. of alkaloids. The standard in the U.S.P. VIII. was 0.5 per cent.

In regard to other pharmaceutical preparations of coca, it should be noted that coca-wine, if medicated so that it may be sold without a wine-licence, must contain ½ gr. of cocaine in the ounce. If prepared with a salt it would be prepared "therefrom or therewith" according to paragraph (4). It is, however, generally prepared with the leaves. Other preparations are the tincture (1 of leaves in 5); elixir (Martindale gives the percentage of coca alkaloids as 0.075); infusion (1 in 50 of boiling water); coca chewing-gum (made with extract).

The artificial alkaloids acoin, alypin, anæsthesin, eucain, holocain, nirvanin, novocain, orthoform, stovain, which are used as substitutes for cocaine, are not included in the regulation.

**Manufacture of Cocaine.**

A licence from the Secretary of State is required by any person who manufactures or carries on any process in the manufacture of cocaine.

Originally the manufacture of cocaine in this country was not referred to. It is apparently illegal for unlicensed persons to convert cocaine into its salts.

Conditions may be attached to the licence. The importation of coca-leaves is not prohibited, but crude coca alkaloids, from which pure cocaine is made, can only be imported under licence.

**Opium.**

The expression "opium" in the regulation means—

(*a*) Raw opium.
(*b*) Powdered opium.
(*c*) Granulated opium.

This should be construed literally. *Preparations* of opium, such as ext. opii and ung. gallæ c. opio are not included in the Order, the definition in this respect being less comprehensive than that given for "cocaine." Raw opium made into pills may not be sold to the public, as there is no provision in the regulation for the supply of opium *per se* on the prescription of medical practitioners, but the difficulty may be got over by asking the medical practitioner to prescribe the equivalent of pil. saponis co. (containing 20 per cent. of opium) or to employ some adjuvant with raw, powdered, or granulated opium.

Opium may only be sold to "authorised persons" (*q.v.*).
Sales must be recorded in the register (*q.v.*).

**Permits.**

Two kinds of permits are granted—

(1) *General*, which gives the right to purchase cocaine or any of the preparations containing it; and

(2) *Special*, which defines the preparations that may be purchased—*e.g.*, dental anæsthetic.

The permit continues in force until revoked by the Secretary of State, and on revocation must be surrendered to the Secretary of State. It must be produced to the person or firm from whom the cocaine is purchased, and must be endorsed by such person or firm at the time of purchase with particulars of the date of purchase, the quantity purchased, the form in which purchased, and the signature and address of the person or firm. The holder is required to keep a complete record of all purchases of cocaine in pursuance of the permit, showing in respect of each purchase the date of purchase, the quantity purchased, the form in which purchased, and the name and address of the person or firm from whom purchased. This record must be open for inspection by any person authorised for the purpose by the Secretary of State. The holder must furnish to the Secretary of State such returns of his purchases as may from time to time be required. He must also mark

each package or bottle containing any article manufactured by him into the composition of which cocaine enters with the amount and percentage of cocaine in the article.

The form to be filled in by the person or firm from whom cocaine is purchased by the holder of the permit has the following headings:

| Date of Purchase | Quantity of Cocaine Purchased | Form in which Purchased | Signature of Person or Firm from whom Purchased and Address |
|---|---|---|---|

The holders must also keep a record of all dealings in cocaine. (*See* Register.)

Applicants for permits (to the Secretary of the Cocaine or Opium Permits Committee, Mr. J. A. Johnston, Home Office, Whitehall, London, S.W. 1) are required to furnish particulars of the average amount of cocaine purchased and the firms from which and the forms in which purchases have been made. The Committee considers the application on its merits, and if approved the permit is issued by the Home Secretary.

The following general permits have been made:

(*a*) UNREGISTERED DENTAL PRACTITIONERS.—A temporary permit was issued on July 28, 1916, enabling all persons *bona-fide* engaged on that date in practising dentistry, but not registered under the Dentists Act, 1878, to purchase preparations containing not more than 1 per cent. of cocaine, adapted for use as local anæsthetics in connection with dental work, subject to the condition that the preparations are used as local anæsthetics in connection with such work and for no other purpose. This temporary permit was on August 1, 1917, extended "until further notice."

(*b*) FIRST-AID IN FACTORIES.—A general permit has been given to any occupier of a factory or workshop to which the Factory and Workshop Act, 1901, applies, to purchase, for the purpose of giving first-aid treatment in cases of injury to the eye occurring at the works, a preparation consisting of an admixture of cocaine in castor oil with mercuric chloride in a proportion of not more than one part of cocaine in 200 and not less than one part of mercuric chloride in 3,000, and on the conditions that the preparation is used for this purpose and no other, and that it is kept in the custody of the occupier or of a responsible official nominated in writing by the occupier. Directions for making the eye-drops were given in the *C. & D.*, May 12, 1917, p. 34.

Under (*a*) and (*b*) chemists may supply the preparations in question without the production of any special authority by the purchaser, but all sales must be entered in the cocaine register.

**Possession.**

Only "authorised persons" or persons for whom the drug is dispensed on prescription may be in possession of "cocaine" and "opium."

Cocaine or opium in the order or disposition of any person is deemed to be in his possession.

**Prescriptions.**

The greater number of transactions in cocaine which retail chemists make are on prescription. When a prescription is received the chemist, who is "a person legally authorised to dispense such prescription," must see—

(1) That the prescription is that of a duly qualified medical practitioner. (*See* Authorised person.)

The prescription must be written. No mention is made of prescriptions of dentists and veterinary surgeons.

(2) The prescription must be dated,

(3) signed by the "medical practitioner" with his *full* name

(4) and address

(5) and qualifications,

Presumably those that are allowed to be entered on the Medical Register would be sufficient.

These particulars need not be given on prescriptions issued for National Health Insurance purposes on the form provided by Insurance Committees.

(6) and marked with the words "Not to be repeated."

(7) Must specify "the total amount of cocaine to be supplied on the prescription,"

(8) except where the medicine supplied on the prescription is a proprietary medicine, when the amount of the medicine to be supplied must be stated.

(9) Cocaine must not be supplied more than once on the same prescription.

(10) The date upon which it is dispensed must be marked on it, *unless it is an Insurance prescription.*

(11) Entry must be made "in a book set apart for this sole purpose" (*see* Register) of "the ingredients of the prescription,"

(12) the name

(13) and address of the person "to whom it is sold or delivered."

This is usually interpreted as being the name and address of the person for whom the drug is prescribed.

(14) The "amount"

(15) and "percentage" of the cocaine must be "plainly marked" on the package or bottle.

(16) The prescription must be retained by the person, firm, or body corporate by whom it was dispensed,

(17) kept on the premises where it was dispensed,

(18) be open to inspection by any person authorised for the purpose by a Secretary of State.

(19) The prescription must also be copied in the prescription-book in conformity with the Pharmacy Act.

Medical practitioners must mark the prescriptions as required by paragraphs (2), (3), (4), (5), (6), (7), and (8). In the case of Insurance prescriptions, the requirements are given in paragraphs (2), (3), (7), and (8).

**Registers.**

No licence is required for selling cocaine, but sales may only be made to authorised persons or to persons for whom the drug is prescribed. A record of "dealings" in cocaine (including sales to persons outside the United Kingdom) must be made (Section 8), and a "book" must be kept into which must be entered the ingredients of prescriptions containing cocaine. Permission is sometimes given to *file* the orders for cocaine without entering the transaction in a "book." The requirements as to records are:

(1) "Particulars with respect to all dealings in cocaine and opium" must be entered or caused to be entered in a book kept for the purpose.

The words of Section 1 (*e*), which deals with dispensing, are "in a book specially set apart for this sole purpose." This is probably meant to indicate that the book must be other than the prescription-book which is required to be kept under the provisions of the Pharmacy Act. It does not appear from the Order prescribing the form of record (see below) that a separate book is required for recording (*a*) sales of cocaine and (*b*) sales of cocaine by prescription.

(2) The entry in the register must be made on the day on which the transaction is effected

There is considerable uncertainty as to what day the transaction is effected in the case of export orders.

(3) at the premises where the seller carries on business. Separate books are required for every set of premises.

(4) The book must be kept on the premises and be available for inspection by any authorised person at all reasonable times.

The police have been instructed to inspect cocaine and opium registers.

(5) Entries must not be (*a*) cancelled, (*b*) obliterated, (*c*) altered, (*d*) or be untrue in any particular.

The absurdity of this paragraph—if literally construed—has been pointed out in THE CHEMIST AND DRUGGIST, November 10, 1917, p. 44.

FORM OF REGISTER.

An Order was made by the Secretary of State on July 31, 1916, prescribing the form of the record of dealings in cocaine or opium. Separate records must be kept for cocaine and opium respectively. This has been interpreted as necessitating two books, a Cocaine Register and an Opium Register.

The schedule of the Order referred to requires the following headings for the seven columns in the register: (1) Date of sale; (2) name of person, body, or firm to whom sold; (3) authority of person, body, or firm to purchase (*i.e.*, whether duly qualified medical practitioner, etc., etc., or with permit of Secretary of State; if permit, give date); (4) amount of opium (or cocaine) sold; (5) form in which sold; (6) (for cocaine only), when sale is on a prescription, specify the ingredients of the prescription.

**Sale, etc., of Cocaine.**

No person may

(1) Sell, or offer to sell
(2) give, or offer to give
(3) procure, or offer to procure
(4) supply, or offer to supply

Cocaine, to or for any person other than an "authorised person" (*q.v.* or on prescription (*q.v.*).

Cocaine may only be sold

(1) to authorised persons (*see* Authorised persons).

(2) on prescriptions (*see* Prescriptions),

(3) under certain conditions as a dental anæsthetic (*see* Permits),

(4) or as a solution in castor oil for use in factories for first-aid treatment (*see* Permits).

When any package or bottle containing cocaine is sold it must have "plainly marked on it the amount and percentage of cocaine in the article."

The expression "any article" (Section 5) includes dispensed medicine.

All sales of cocaine and opium must be recorded (*see* Registers).

# Associations' Winter Session.

**Chemists' Dental Society.**—A Council-meeting was held at the Holborn Restaurant, London, W.C., on January 3. Mr. Hearle presided. The Hon. Secretary (Mr. Benson Harries) gave a report of the work done by the Emergency Committee since the Council last met. It was decided that at the annual meeting, in May, demonstrations on special branches of dentistry shall be given by experts. An informal chat followed the business meeting.

**Great Yarmouth.**—The monthly meeting of the Great Yarmouth Pharmaceutical Association was held at 156 King Street on January 3, Mr. T. B. Male (President) in the chair, when a letter was read from the Brighton Association, advocating the sale of proprietaries at face-value, and it was agreed to support the proposal and to write to the P.A.T.A. on the matter. A donation of a guinea from the Association's collecting-box was sent to the Benevolent Fund.

**London (E.).**—The East London Pharmacists' Association met at Limehouse on January 3, Mr. A. R. Keith presiding, when Mr. G. A. Tocher (Secretary of the London Pharmaceutical Association) gave an address on *Insurance Dispensing-fees* and was heartily thanked.

**Progressive Pharmacy Club.**—At a meeting held in the Club-rooms on January 8, with the President (Mr. Herbert Skinner) in the chair, an address was given by Mr. F. G. Hines, of York, entitled *Why we should not Relinquish the Title "Chemist."* There was a good attendance, and Mr. Hines had an excellent reception. He professed himself rather scornful of the attempt by interested parties to filch the chemists' legal title, but it constituted a menace to be met and fought. In examining the position, Mr. Hines pointed out that there is no real alternative to the description "Chemist" so far as pharmacy is concerned. "Pharmacist" is not enough, as he showed, but he thought a refusal to give up the title should not shut out the possibility of negotiation with other claimants provided chemists were to obtain any benefit. First of all, no one else has a legal right to the title "Chemist," however full his head may be of chemical formulæ, and it became a question of regulating the use of the title in some way to satisfy the claims made. Mr. Hines felt that the situation, properly handled, might react to the advantage of pharmacists. Further, the question is part of the larger problem surrounding the future examinations and admissions to membership of the Pharmaceutical Society. There are too many claims and interests to permit of any one section of the chemical world arrogating to itself the word "Chemist." The people concerned are (1) chemist's assistant, military dispenser, dispenser to Apothecaries' Society; (2) the qualified member of the Pharmaceutical Society; (3) the firm or corporate body using the various titles which No. 2 can assume; (4) wholesale chemists, etc.; (5) technical and industrial chemists. He would suggest bargaining on the following lines:

1. Dispenser as N.H.I. conditions; three years' training, examination, and registration; under control of pharmaceutical chemist; not allowed to keep open shop for dispensing or selling—wholesale or retail.
2. Qualified M.P.S. (Minor and Major abolished); Chemist (Pharm.). Pharmaceutical Chemist; Pharmacist.
3. Corporate bodies (keeping open shop) to have no claim to individual titles. Drug Company; Druggists.
4. Wholesale (or Manufacturing) druggists; Chemical-manufacturers; Analytical Chemists, Wholesale Chemists (if *bona fide* under control of either technical or pharmaceutical chemist).
5. Chemist; Chemist (Tech.) or Chemist (Ind.). Suitable restriction against retail trading.

The "Chemist (Tech.)" or ("Ind.") would hold the Institute of Chemistry qualification or University equivalent. There might be a "Pharmaceutical Chemist (Honours)" equivalent to the old Major examination, also University "Ph. Bach." The "Pharmaceutical Chemist" would possess the old Minor qualification, while the "Dispenser" would have passed Section 1 of the qualifying examination, the Apothecaries' Society's examination, or the examination for an Army Dispenser. An interesting discussion followed, in which the Chairman, Miss Margaret Buchanan, and Messrs. Bright, Fairweather, Felton, Kirkpatrick, Beckwith, Schollar, Jones, Humphrey, and Wigginton took part. Ultimately a resolution was moved by Mr. A. Keith, and seconded by Miss Borrowman, pledging the meeting to support the Pharmaceutical Council in any action taken to protect the legal right of British pharmacists to use the title "Chemist," and to resist by every possible means any attempt to filch the title by other bodies. A vote of thanks to Mr. Hines concluded the proceedings.

JAMAICA LIME-JUICE.—During 1916 the exports were 91,472 gallons, valued at 9,147*l.*

# Insurance Act Dispensing.

**Record of matters concerning Chemists' interests in the National Health Insurance Acts.**

## Reports from Local Centres.

### ENGLAND.

**Lancashire.**—At a meeting of the Lancashire Prescription Bureau (No. 4 Area), at Rochdale Town Hall, on January 7, Mr. Holland, J.P., was elected President of the Committee for the ensuing year. The Superintendent of the Bureau (Mr. C. A. Arkle) was granted an increase of salary from 130*l.* to 150*l.* per year, and Mr. T. Gerrard, senior pricer, had his salary increased from 110*l.* to 120*l.* per year. It was reported that Lancashire, Westmorland, and Bolton Insurance Committees had adopted the uniform Formulary prepared by the Special Sub-Committee as from January 1; while Blackburn, Preston, Bury, and Rochdale are considering the question of adopting it in their respective areas.

**London.**—A meeting of the Pharmaceutical Committee was held at Bank Chambers, High Holborn, W.C., on January 8, Mr. G. W. Hatfield (Chairman) in the chair. An expression of sympathy was ordered to be sent to Mr. Trick on the death of his wife. On a question raised by Mr. Shirtliff as to the validity of a prescription-form bearing a doctor's name imprinted in Roman characters by a rubber stamp, the Committee considered such a prescription out of order, and instructed the Secretary to deal with the matter through the Panel Committee. It was pointed out that facsimile signatures imprinted by rubber stamp were only allowed provided the doctor initialled each signature. On the question of glycerin and syrup, the Secretary was instructed to insert a further explanatory paragraph in the next circular to panel chemists. The report of the Pharmaceutical Service Sub-Committee referred to two cases of complaint as to inaccuracy of dispensing, which were dealt with appropriately.

**Sheffield.**—A meeting of the Pharmaceutical Committee was held on January 8 at the Insurance Offices. Mr. A. H. Culverhouse presided. An application was made by a panel chemist for alteration to his hours, which the Insurance Committee could not agree to, as it was received too late for inclusion in the new list. The Committee expressed an opinion that the list of chemists' hours should be revised by them before printing in future. A complaint was received from a chemist that he was called upon to supply oxygen out of hours to patients from other parts of the city. It was decided that so soon as possible, when supplies are available, each district should be provided for by at least one chemist. The Secretary was instructed to issue a notice to panel chemists pointing out that syr. factitius B.P.C. (W.E.F.) should be used in all Insurance dispensing, B.P., B.P.C., and Local Formulary preparations. The question of "one-man" businesses, which may be dealt with by the local Tribunal, was left in the hands of the Special Committee. At present no further instructions have been received relating to exempted pharmacists. It was decided to accept the new terms for the checking of prescriptions as submitted by the Pharmaceutical Society on condition that reasonable terms are available for a complete check if required. The Secretary was instructed to confer with Thompson & Capper, Ltd., *re* the pricing of homœopathic prescriptions. As an outcome of an inquiry under the Inquiries Section on the pricing of a physostigmine script, the Secretary was instructed to ask for the prescription to be produced for examination as to the pricing. A long discussion took place on the report of a full check of the April scripts, which showed a large number of errors, particularly in the number of ingredients not priced at all. The Insurance Committee is to be communicated with offering a strong protest to this laxity, but in view of a considerable improvement in pricing during the last two months the matter is to be allowed to remain at present. The Derbyshire Pharmaceutical Committee's circular on the Rural Area question was considered, and the Committee expressed their sympathy with it. The Insurance Committee had agreed to the Pharmaceutical Society's amendment to Article 12 (1) of the Regulations. It was decided to offer the best thanks of the Committee to Mr. John T. Appleton for the services he had rendered in securing the adoption of the Rural Area clause by the Insurance Committee. The financial statement for the year showed an expenditure of 174*l.* 14*s.* 1*d.*, leaving a balance of 12*l.* 9*s.* 9*d.* The sum of 8*l.* 11*s.* was ordered to be paid for special checking, and an application is to be made to the Insurance Committee for 150*l.* as expenses for 1918.

# Trade Report.

**The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.**

### 42 Cannon Street, E.C. 4, January 10, 3 p.m.

ALTHOUGH business is fully resumed in the markets the general tono is quiet, and at the moment trading is mostly restricted to spot parcels, buyers acting cautiously in regard to forward purchases. Among chemicals, the bromides, as anticipated, remain very firm, particularly potash and ammon., some dealers in which ask a slight advance. Hexamine is getting scarcer on spot. Barbitone and cocaine are both very scarce. Formaldehyde stocks on spot are getting into still smaller compass. Cream of tartar has advanced a further 2*s*. 6*d*. per cwt., and tartaric acid has hardened; citric acid is easy. Pending the drug-auctions to be resumed next week, business has been quiet. Balsams are firm, with a continued scarcity of tolu. West Indian tamarinds have been sold at higher rates. Squill is rather easier, and juniper-berries to arrive are offered at more reasonable prices. Menthol and Japanese oil of mint are very flat. Cascara sagrada and senega are both firm. In essential oils, higher prices are asked for cubeb oil. Eucalyptus remains firm. Sassafras and Bourbon geranium oils are dearer. In "outside" products glucose is getting scarcer daily. Crude antimony on spot is firmer. Isinglass at auction met with a "record" advance on small supplies; and owing to much-needed arrivals having taken place the spice-auctions were on a much larger scale than has been the case for many months, over four thousand packages being offered, comprising a varied assortment.

| Higher | Firmer | Easier | Lower |
|---|---|---|---|
| Cubeb oil | Agar-agar | Aloin | Benzaldehyde |
| Geranium oil (Bourbon) | Ammon. bromide | Squill | Ethyl salicylate |
| Glucose | Antimony, crude | Turpentine | Juniper-berries (c.i.f.) |
| Isinglass | Cream of tartar | | Mace (W.I.) |
| Methyl sulphonal | Hexamine | | |
| Nutmegs (W.I.) | Potash bromide | | |
| Sassafras oil | Shellac | | |
| Spermaceti | Tartaric acid | | |
| Tamarinds (W.I.) | Wax, veg. (Japan), c.i.f. | | |

### Cablegram.

NEW YORK, January 10.—Business in drugs is quiet. Jalap is dearer at 50c.; balsam tolu has advanced to 95c., and Canada balsam to $6.00. Belladonna-leaves are dearer at $1.60. Benzoates have further advanced; benzoic acid is now $3.90, and sodium benzoate $3.85. Milk-sugar is higher at 48c. Hydrastis (golden seal) is lower at $5.30, and balsam Peru is also cheaper at $3.75 per lb.

ACETANILIDE is in more demand at unaltered rates at present, but will probably improve owing to the freight difficulty.

AGAR-AGAR.—Sales of No. 1 Kobe strip are reported on the spot at 3*s*. per lb., being dearer.

ALBUMEN.—Prime on spot offered at 4*s*. 2*d*. per lb., at which figure the sales include ten tons; to arrive 4*s*. 2*d*. c.i.f. is quoted.

ALOES.—The exports from the Union of South Africa during September 1917 were *nil*, against 110,555 lb. (910*l*.) during September 1916. During the nine months ending September 30, 1917, the exports were 411,437 lb. (3,385*l*.), against 838,079 lb. (7,802*l*.) during the corresponding period of 1916.

ALOIN varies in price from 4*s*. 6*d*. to 4*s*. 9*d*. per lb., according to seller, being rather easier.

ANISE OIL, STAR.—Sales of "Red Ship" brand have been made at from 4*s*. 2*d*. to 4*s*. 3*d*. per lb. on the spot and at 3*s*. 11*d*. c.i.f. A fair quantity has arrived.

ANTIMONY.—Chinese crude is very scarce, only few parcels being available on the spot, for which holders ask 46*l*. per ton, and business could hardly be done at less. There is, however, not much interest at the moment, whether for spot or forward shipment. The fact that ship-room is virtually unobtainable from China discourages attempts to arrange new orders, and quotations for shipment are quite nominal at about 42*l*. to 45*l*. c.i.f. U.K. There has been some talk of higher prices in America, where the demand has been more active.

ARROWROOT is firm, with good manufacturing St. Vincent offering at 7½*d*. per lb.

BALSAMS.—*Copaiba* is firm but unaltered, Central American B.P. offering at 5*s*. 3*d*., filtered Para in cases 3*s*. 4*d*., unfiltered Maranham in casks 5*s*. 3*d*., and filtered in cases 5*s*. 8*d*. Genuine B.P. *Peru* is 19*s*. net. *Tolu* is 4*s*. 9*d*. to 5*s*. per lb. net.

BENZALDEHYDE free from chlorine, and of particularly good quality French make, can now be had at 20*s*. per lb. net.

BENZOATES.—Prices continue to advance in America, but there is evidently some keen competition in this country, which may operate as a check to the old high prices being realised. *Acid* is worth 15*s*. 6*d*. to 16*s*., and *sodium benzoate* 6*d*. per lb. less. Under present conditions there is great difficulty in shipping this bulky chemical from the U.S.A.

BROMIDES.—There has been a fair inquiry, and buyers have been prompted to appropriate spot parcels in view of the anticipated shortage to which we have previously referred. Sales have been made at from 6*s*. 9*d*. to 7*s*. for potassium crystals, 4*s*. 9*d*. to 5*s*. for ammonium, and 3*s*. for sodium. Sellers are now showing some reluctance to commit themselves to further quantities, and in the case of potassium a small premium on the above price is asked. Makers do not seem to be in a position to offer any fair-sized quantity.

BUCHU.—The exports from the Union of South Africa during September 1917 were *nil*, against 3,836 lb. (691*l*.) during September 1916. During the nine months ended September 1917 the exports were 121,494 lb. (19,696*l*.), against 111,175 lb. (18,090*l*.) during the corresponding period of 1916.

CADMIUM.—There is quite a fair business passing at the steady rates of from 7*s*. 9*d*. to 8*s*. per lb. There seems a little more competition, while receipts lately have been on a moderate scale. Business chiefly consists of small lots, half a ton being quite a large quantity.

CAMPHOR.—As a rule contracts for January-March shipment are usually placed before now, but the Japanese Government, to the surprise of the market, are holding back, and no fresh offers in quantity are being made for shipment over the next three months. The spot price of 2½-lb. slabs is 3*s*. 10*d*., and ¼-oz. and 1-oz. tablets 4*s*. 2*d*. per lb. The exports from Japan during September amounted to 327,529 kin, valued at 613,521 yen. During the nine months ending September 30 the shipments were as follows:

| | 1915 | 1916 | 1917 |
|---|---|---|---|
| Kin ... ... | 2,800,424 | 4,136,754 | 2,547,422 |
| Yen ... ... | 2,518,404 | 4,030,498 | 4,372,687 |

The destinations were as follows:

| | 1915 Kin | 1916 Kin | 1917 Kin |
|---|---|---|---|
| British India ... | 964,507 | 1,128,848 | 806,501 |
| Asiatic Russia ... | 152,828 | 446,904 | 65,283 |
| Great Britain ... | 295,365 | 622,428 | 47,610 |
| France ... ... | 463,775 | 319,382 | 66,618 |
| United States ... | 649,016 | 1,416,038 | 1,371,827 |
| Australia ... | 134,029 | 87,869 | 73,426 |
| Other countries ... | 140,904 | 115,285 | 116,157 |
| | 2,800,424 | 4,136,754 | 2,547,422 |

CAPSICUMS.—At auction 33 bags Nyasaland sold at 60*s*. for fair red picked, and at 60*s*. for common dark red picked.

CASCARA SAGRADA.—Spot sales of two-three-year-old have been made at 105*s*. per cwt., with 107*s*. 6*d*. asked. The London stock (according to the monthly statistics) at the end of December 1917 was 48 tons, against 97 tons in December 1916.

CEDARWOOD OIL is firm at 2*s*. per lb.; supplies are difficult to obtain from U.S.A.

CINNAMON-LEAF OIL.—Spot sales of Ceylon have been made at 8½*d*. per oz.

CITRONELLA OIL.—Small sales of Ceylon have been made on the spot at 2*s*. 6*d*. per lb. in large drums, the price of small drums being 2*s*. 7*d*.

CLOVES are steady at 1*s*. 9*d*. per lb. for fair Zanzibar on the spot; at auction 100 bales fair were bought in at 1*s*. 10*d*.

COCAINE.—A few sales of hydrochloride have been made at steady prices.

COUMARIN.—Small spot sales have been made at 160*s*. per lb. net.

CREAM OF TARTAR is firmer at 357*s*. 6*d*. per cwt. on the spot.

CUBEB OIL has advanced to 36*s*. 6*d*. per lb. for English distilled.

ETHERS.—Makers have advanced their prices by 3*d*. per lb., and now quote .730 meth. at 2*s*. 4*d*., .720 meth. at 2*s*. 7*d*., and anæsthetic quality at 3*s*. 2½*d*. per lb. net.

ETHYL SALICYLATE has been reduced to 3*s*. 10*d*. per lb. net on spot.

FORMALDEHYDE.—The position is peculiar, and difficult to explain in detail. The raw material in the U.S.A. is now controlled by the Government at a low price, and it remains to be seen what effect this will have on the market here. It is probable that prices have reached their highest, and that there will possibly be a reduction when certain definite quantities become available.

GERANIUM OIL.—Bourbon is dearer at 22*s*. 6*d*. per lb. on the spot.

GLUCOSE.—In the absence of adequate supplies, probably 70*s*. to 75*s*. per cwt. would have to be paid for liquid American.

GUM ACACIA is firm, with Kordofan sorts offering at from 87*s*. 6*d*. to 90*s*. per cwt. on the spot, and new crop at 82*s*. 6*d*. c.i.f.

HEXAMINE.—Stocks have been depleted, but some fair-sized shipments are now afloat, which can be bought at 5*s*. to 5*s*. 3*d*. per lb. net.

HYPHOPHOSPHITES are only obtainable in very limited quantities, and no fixed prices are current.

JUNIPER-BERRIES.—Spot prices are unchanged, but for forward delivery Italian prices are now more reasonable at from 25*s*. to 27*s*. per cwt. c.i.f.; date of delivery is, however, problematical.

KOLA.—At the spice-auction 24 bags West Indian dried sold at from 7*d*. to 9¼*d*.

MACE.—At auction the large supply of 1,046 packages offered and sold at an irregular decline of from 3*d*. to 8*d*. per lb.

MENTHOL remains very flat, with sellers of Kobayashi-Suzuki at 13*s*. 3*d*. per lb. on the spot. The exports from Japan during September amounted to 19,217 kin, valued at 124,915 yen. During the nine months ended September 30 the exports were as follows:

| | 1915 | 1916 | 1917 |
|---|---|---|---|
| Kin ... ... | 247,958 | 304,372 | 191,395 |
| Yen ... ... | 1,368,809 | 1,903,389 | 1,227,778 |

The destinations were as follows:

| | 1915 Kin | 1916 Kin | 1917 Kin |
|---|---|---|---|
| British India ... ... | 16,847 | 11,040. | 9,091 |
| Great Britain ... ... | 47,549 | 117,134 | 26,497 |
| France ... ... ... | 38,602 | 64,647 | 2,722 |
| United States ... ... | 122,145 | 101,011 | 138,388 |
| Other countries ... | 22,855 | 10,540 | 14,697 |
| | 247,958 | 304,372 | 191,395 |

METHYL SALICYLATE is quoted at from 4*s*. 3*d*. to 4*s*. 6*d*. per lb. on the spot.

METHYL SULPHONAL is dearer in sympathy with sulphonal, current value being 70*s*. to 75*s*. per lb. net.

MILK-SUGAR.—Still higher prices have been asked and paid, and it is to be regretted that a necessitous food-product of this character should be held at the mercy of "profiteers" who have, by taking advantage of the great scarcity, unwarrantably inflated prices beyond a moderate limit.

MINT OIL.—Japanese dementholised is very quiet, with Kobayashi-Suzuki offering at 3*s*. 6*d*. per lb. on the spot. The exports from Japan during September amounted to 18,288 kin, valued at 47,294 yen. During the nine months ended September 30 the exports were as follows:

| | 1915 | 1916 | 1917 |
|---|---|---|---|
| Kin ... ... | 280,198 | 299,215 | 168,490 |
| Yen ... ... | 564,415 | 680,322 | 387,518 |

MOLYBDIC ACID is offered at 15*s*. 6*d*. per lb. net on spot.

NUTMEGS.—At auction 392 packages West Indian offered and sold, the quality being slightly defective. Prices advanced 2*d*. per lb., but broken realised much higher rates.

OPIUM.—Persian is unchanged, with small spot sales of 10 per cent. at from 61*s*. to 62*s*. per lb. Very little business is taking place for export owing to permits being granted very sparingly. Druggists' opium is unobtainable.

ORANGE-PEEL is quiet, with fair to good so-called Maltese strip offering at 2*s*. 6*d*. per lb. on the spot, and to arrive rather less will buy. No arrivals of new crop appear to have yet taken place.

PALMAROSA OIL.—Small sales are reported at 16*s*. per lb on the spot.

PEACH-KERNEL OIL is very scarce, and quoted at 1*s*. 10*d*.—an advance of 1*d*. per lb.

PEPPERMINT OIL.—American H.G.H. has been sold at 22*s*. 6*d*. per lb., London terms.

PHENACETIN is in fair demand at from 32*s*. 6*d*. to 33*s*. per lb. on the spot, but if present freight difficulties with America continue (from where there is a falling off in imports) there may be a shortage.

PHENAZONE is likely to become scarce during the next month or two, in view of the shortage of raw material at some of the works. Meanwhile there is a fair demand at about 55*s*. net on spot.

PLATINUM.—Business is restricted, and almost entirely confined to special Government requirements, the price remaining at 290*s*. per oz., which is also the value of palladium, for which keen competition is experienced for various requirements which used to be filled by platinum. It is understood that satisfactory progress is being made in exploiting palladium resources, especially in Canada. Platinum is under close control, and the price of scrap is 230*s*. per oz.

PODOPHYLLIN RESIN is firm, with makers offering at 20*s*. per lb. net on the spot.

POTASH PERMANGANATE.—A limited quantity of good crystal is obtainable at 14*s*. 9*d*. per lb.

QUICKSILVER.—It is extremely difficult to give reliable quotations, the market being rather wide, but on the whole very strong, while imports continue light under present shipping difficulties. The stringency seems likely to become more marked, and it is possible that the highest record ever reached of 26*l*. per bottle may again be attained. Some importers quote 23*l*. to 25*l*., and it is doubted whether much could be procured at less than 22*l*., except perhaps against special war orders.

QUININE.—In view of the fact that makers have now completed orders, it is possible that before long they may be in a position to make fresh offers to consumers, who are eagerly waiting to buy further quantities. From all reports we hear that there is a possibility of supplies becoming available later in the month.

SACCHARIN.—Competition is becoming keener between the importers from America, and we understand that 550 strength can be supplied at 310*s*. per lb. for January shipment, while for spot 320*s*. to 330*s*. is asked, with contracts over a period at proportionately lower prices.

SALICYLATES.—Quiet. The falling off in the exports of aspirin has evidently affected the business in salicylic acid, and pressure to sell is being exerted, *acid* offering at 5*s*. 9*d*. to 6*s*. and sodium salicylate at 6*s*. 9*d*. to 7*s*. per lb.

SANDALWOOD OIL remains firm, with oil distilled by the Mysore Government offering at 53*s*. per lb. net.

SASSAFRAS OIL.—American natural is still very scarce and dearer at 7*s*. per lb. on the spot.

SENEGA is firm at 4*s*. 6*d*. per lb. net on the spot.

SHELLAC is quiet but firmer, owing to few sellers, who quote usual standard TN quality at 365*s*. per cwt., and AC Garnet at 370*s*. on the spot.

SPERMACETI is now worth fully 1*s*. per lb. for American refined, owing to the difficulty of obtaining fresh supplies. The above price is still relatively cheap when compared with other fats and waxes.

SQUILL is rather easier, fair pale offering on the spot at 57*s*. 6*d*. and dull creamy at 52*s*. 6*d*. per cwt.

TAMARINDS.—A fair business has been done in West Indian at about 47*s*. 6d. per cwt. in bond, with from 50*s*. to 52*s*. 6*d*. now asked.

TARTARIC ACID is firmer at 3*s*. 2*d*. per lb., and is scarce (especially powdered). English makers continue behindhand with their deliveries.

TURPENTINE is easier on the week, closing on Wednesday evening at 124*s*. 9*d*. per cwt. for American on the spot.

WAX, VEGETABLE.—Sales of Japanese for January-March shipment have been made at 95*s*. per cwt. c.i.f., being dearer; the spot value is 100*s*.

## Coca in Java.

Although 1915 was a bad year for coca-planters, 1916 was still worse. It is stated, however, that the supply of leaf at Amsterdam is slowly diminishing owing to lack of imports, and this affords some hope of a renewed demand in the not too distant future. The coca-extraction factory at Soekaboemi was unable to continue work during 1916 owing, it is stated, to the impossibility of obtaining supplies of chloroform for use as a solvent.

## Nitrate of Soda for the Allies.

In accordance with decisions reached at the Inter-Allied Conference held in Paris from November 29 to December 3, 1917, a Nitrate of Soda Executive has been formed to deal with the purchase and supply of nitrate of soda in Chile for the British, French, Italian, and United States Governments. This Executive will have its offices at Empire House, Kingsway, London, W.C. 2. Sir Edmund Wyldbore Smith, the Director of the Commission Internationale de Ravitaillement, has been appointed Chairman, and Major Paul Stonum Secretary. All questions concerned with the purchase, sale, and shipment of nitrate of soda, the supply of fuel, bags, machinery, and the like, should be addressed to the Secretary at the above address.

## Arrivals of Chemicals, Drugs, etc.

THE following arrivals have taken place at the Ports of London and Liverpool:

*To London*
(Dec. 28 to Jan. 4).

Acetic acid, 40 cbys.
Aloin, 5 cs.
Antimony reg., 177 tons
Argol, 88 cks. 5 bgs.
Atoxyl, 1 cs.
Barytes, 100 bgs.
Belladonna ext., 3 cs.
Belladonna-root, 12 bls.
Benzyl acetate, 4 cs.
Bromides: potash, 40 cs.
Bronze powder, 30 cs.
Calamus-root, 10 bgs. 32 bls.
Calcium citrate, 10 pkgs. 3 bgs.
Camphor, 325 cs.
Casein, 9,996*l.*
Chemical products, unrated, 5 cs.
Coumarin, 1 cs.
Dagga, 40 bgs.
Drugs, unrated, 140*l.* 26 cks.; herbs, dried, 116 bls.; flowers, dried, 18 bls.
Dyestuffs, tanning materials, etc., unrated, 152 pkgs.; indigo, 32 cs.; myrabolans, 37,973 pockets 2,179 bgs.; tanners' bark, 222 tons; wattle ext., 96 bls.
Emulsion, 1,212 bxs.
Fullers' earth, 5 tons
Galls, 2,450*l.*
Gelatin, 2,154*l.*
Gums (cwt.): acacia, 200; chicle, 4; tragacanth, 28
Insect-flowers, 55 bls.
Iodine, 257 kgs.
Juniper-berries, 205 bgs.
Kola, 35 bgs. and 1 cwt.
Lithopone, 2,012 cks. 120 brls.
Menthol, 260 cs.
Milk sugar, 160 cs. 112 brls.
Nuts and kernels (cwt.): arachis, 30,040; copra, 553; palm-kernels, 20,056
Oils, essential, 600 cs. 15 pt. cs. 27 pkgs. 1 pot 2 jars 7 drms.; anise, star, 250 cs.; cade, 30*l.*; camphor, 350*l.*; eucalyptus, 242 cs.; *synthetic*, 7 cs.
Oils, fixed: arachis, 2,400 cs.; chaulmoogra, 17 cs.; coconut, 363 cks. 1,650 pkgs. 805 cs.; fish, 5,020 cs.; herring, 3,500 cs.; palm, 275 cks.; shark, 3,000 cs.
Opium, 120 cs.
Orris, 182 bgs.
Oxalic acid, 102 pkgs.
Perfumery (mostly perfumers' materials), unrated, 1,354*l.*; toilet powder, 276*l.*
Potash iodide, 10 cs.
Pyrogallic acid, 10 cks. 4 kgs.
Quinine, 168,576 oz.
Quinine ethylcarb., 1 cs.
Resorcin, 1 cs.
Saltpetre, 13,558 cwt.
Sarsaparilla, 2 bls.
Seeds (bags): canary, 250; castor, 2,782; coriander, 92; cotton, 400 tons; dill, 980; fenugreek, 296; lin, 20,532; rape, 2,004; sunflower, 2,404
Soap stock, 730*l.*
Soda nitrate, 19,980 cwt.
Sponge, 17 bls.
Starches (cwt.), 2,490; dextrin, 200; farina, 660; potato-flour, 4,597
Stovaine, 1 cs.
Subitol, 20 cs.
Sulphonal, 2 cs.
Talc, 350*l.*; French chalk, 20*l.*
Tallow, 1,140 cwt.
Tannic acid, 5 cks. 15 kgs.
Tartaric acid, 16 cks.
Theobromine, 11 cs.
Trional, 1 cs.
Vanillin, 2 cs.
Wax, not described, 238 bgs. 28 pkgs. 14 cs. 2 brls.
Wax, paraffin, 734 cwt.
Zinc oxide, 750 cks.

*To Liverpool*
(Dec. 29 to Jan. 5).

Acetanilide, 1 kg. 2 brls.
Acetate of lime, 1,930 bgs.
Argol, 204 bgs. 24 cks.
Arsenic, 50 bxs.
Betanaphthol, 22 brls.
Bromides: sodium, 25 cs.
Bronze powder, 1,248*l.*
Camphor, 25 cs.
Castorum, 1 cs.
Chemicals, unrated, 10 kgs.
Cinchona, 2,797 bls.
Cuscus-root, 155 bls.
Drugs, unrated, 78 pkgs. 43 cs. 81 bls. 798 bgs. and 1,789*l.*; medicines, 77*l.*
Dyestuffs, tanning materials, etc., unrated: cutch, 400 bxs.; dyewood ext., 5 bxs.; fustic, 205 pcs.; fustic liquor, 5 cks.; gambier, 12,125 cs. 502 bgs.; indigo, 27 cs.; logwood, 1 lot; logwood liquor, 10 cks.; myrabolans, 10,041 pockets; myrab. ext., 1,075 pkgs.; quercitron-bark ext., 100 bxs. 272 cks.; sumach, 4,775 bgs.; sumach ext., 2,450 bgs. 60 cks.; sumach-leaves, 170 bls.
Fullers' earth, 28 bls.
Galls, 325 cs.
Gentian-root, 24 bls.
Gums: acacia, 50 bgs.; damar, 100 cs.
Hexamine, 5 kgs.
Hydroquinone, 4 cs.
Liquorice-root, 17 bls.
Medicines, proprietary, 1,266*l.*
Methyl salicylate, 5 cs.
Mineral white, 880 bgs.
Nuts and kernels: arachis, 12,206 bgs.; copra, 8,224 bags and 910*l.*: palm-kernels, 112,977 bgs. and 2,550 tons
Oils, essential, unrated, 10 cs. 7 bxs.; anise, star, 100 cs.
Oils, fixed: arachis, 1,500 cs.; castor, 200 brls.; fish, 3,400 cs. 300 cks.; palm, 2,411 cks. 32 brls. and 264*l.*; shark, 1,000 cs.; soya-bean, 300 cs.
Paris green, 9 drms.
Perfectol, 150 brls.
Perfumery, unrated, 590*l.*
Petroleum jelly, 100 cs.
Potash chlor., 148 brls.
Pumice stone, 655 bgs.
Quinine, 150 cs.
Resin, 654 cks. 5,863 brls.
Rhubarb, 39 cs.
Salicylic acid, 77 brls.
Saltpetre, 3,190 bgs.
Seeds (bgs.): annatto, 10; castor, 4,173; cotton, 2,799 tons; dill, 172; fennel, 145; lin, 28,955; poppy, 15
Serums, 4 cs.
Soapstone, 500 bgs.
Soda nitrate, 20,477 bgs.
Soda nitrite, 35 cks.
Starches: 4,403 bgs. 60 bxs.: dextrin, 645 bgs.: farina, 1,564 bgs. and 1,025*l.*
Stearine, 500 bgs.
Tannic acid, 8 brls.
Thorium nit. and cerium nit., 12 cs.
Turpentine, 500 brls.
Wax, bees', 56 cs.
Wax, paraffin, 862 brls. 762 cs. 115 bgs.
Witch-hazel leaves, 3 bls.
Zinc oxide, 500 brls.

RUSSIAN PLATINUM FOR AMERICA.—Mr. F. W. Draper, an American engineer, has arrived at a Pacific port with 21,000 oz. of platinum, valued at $2,000,000, from Petrograd. It is urgently needed for war-purposes.

## Correspondence

**Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.**

### Profits on Proprietaries.

SIR,—In fifty days Mr. Wolff has completely changed most of his views and arguments, while he has not produced any evidence to justify the opinions he still holds. Read and compare his letters. On November 17 he said, "Patents after charging all expenses yield adequate net profits." "2*d.* per article is better than 3*d.*; you must increase your volume—*i.e.*, sell three times the quantity." "P.A.T.A. is not intended for bleeding the public, and will not lend its aid to profiteering." "Any unduly wide margin of profit is dishonest to the public." On January 4 he says: "I want more profit for myself and others, and am out for all I can get." "Am putting up for the P.A.T.A. to get more profit and to support face-value." In spite of this he still maintains that patents can be sold on average on 5 per cent. working expenses, which is another way of saying he makes 15 per cent. net profit on P.A.T.A. present terms. On such conditions how can he consistently ask for a 10-per-cent. rise from the wholesale? However good Mr. Wolff's intentions may be, his logic and principles are unsound in practice, and will need some repairing before they will be accepted by any accountant or retailer who makes a correct analysis of his trading. In a few weeks those who have increased their "volume" of trading will be asked by the income-tax authorities to say why the profits are not up to the standard proportion, and subject to a forfeiture of 80 per cent. of the excess profits over 1913. Perhaps Mr. Wolff will put down 5 per cent. expenses for working "the best part of his business" and pay income-tax on the 15 per cent. net profit. If he pay 5*s.* in the pound he will probably know more than he professes to do about the net income derived from selling 1,000*l.* worth of patents at P.A.T.A. prices. The opinions of other P.A.T.A. candidates would be appreciated.—Yours faithfully,

J. J. JACKSON
Hereford. (Chave & Jackson, Ltd.).

SIR,—One of your most interesting correspondents appears to me to be "M.P.S.I.," whose letter appeared in the *C. & D.*, November 17. He spends on an average 30*l.* per month on patents. His invoices show a profit of 8*l.* per month. Will he tell us what the stock value is that he has left after twelve months' trading, or even after one month's trading? We will assume that every sale is for cash—8*l.* profit for investing three ten-pound notes for one month! A butcher I once knew in the South of England killed two pigs per week and sold them in various forms, well known to pork-lovers, and emptied his shop every Saturday, and you had to "hustle" to be in time. He gave no credit, because he could not write. This gentleman retired on a competency in a few years—his capital turned over weekly to excellent purpose. A qualified pharmacist, of good breeding, good education—perhaps F.C.S. stands after his name, perhaps J.P.—who knows very much about plant tissues, Boyle's Law, alkaloids, and the like, and not allowed to retail 2 dr. of tinct. opii unless his certificate of qualification is on view, but is asked to hand over with his sweetest smile any patent that comes along at 1½*d.* or 2*d.* in the shilling profit—he is indeed a sight at which the angels must weep. Surely after all his years' toiling up to the necessary professional status a pharmacist can make and sell something that he alone is the owner of, and from which he alone draws the profit, and let grocers and drapers amuse themselves. Yours faithfully,

J. W. D. (231/4.)

*Vigil* (229/10), writing on this subject, expresses the view that chemists should cease to sell all those proprietary articles, "which are a deliberate swindle. Let a conference on this large topic be arranged between doctors and chemists, a conference which the B.M.A. would welcome; let the grocers take over the wretched things, an they wish; and then imagine what the effect on public opinion would be! With doctors and pharmacists forming a solid phalanx in this matter, an effective quietus would be given to quackery, and in its place would grow the practice of legitimate medicine. Breathes there a pharmacist with soul so dead that he would not welcome the jettisoning of 'patents' and the doubling of his dispensing activities?"

## Subscribers' Symposium.

**For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.**

*The C. & D. Diary, 1918.*

"Certainly the *Diary* is much smaller, but it contains much valuable information, and is a handy book of reference."—*F. M.* (255/26).

"One is struck with the neat appearance of the book, which, to my mind, is equally as good as your former issues, although sent out in strenuous times. The Trade Directory and Buyers' Guide and the other important information will be well used during the coming year. What a proud record it would be if the fiftieth issue of the *C. & D. Diary* could mark the year of peace!"—*E. D. G.* (227/5).

*What is Liquor Plumbi?*

*E. G.* (229/54) writes: "Now that we have in the British Pharmacopœia liquor plumbi subacet. dil. and liquor plumbi subacet. fort., it becomes a question what a doctor means when he orders 'liquor plumbi subacet.' Perhaps some of your readers would kindly give their opinions on this point."

*Warnings.*

*Middlesex* (230/19) asks us to warn the trade against a man in khaki, aged about twenty-eight, height 5 ft. 9 in., clean shaven, who presents cheques on the Commercial Bank of Australia, Ltd., Bishopsgate, London, E.C. His procedure is to order goods of the value of about 10*s.*, to be sent to an address—probably military hospital or depôt. A cheque is then presented for about 3*l.*, probably in the name of "L. H. Henderson." The number of the cheque is somewhere about 299832. The Commercial Bank of Australia inform "Middlesex" that the book containing this cheque was delivered to a person giving the name of one of their customers.

*Mr. H. J. Dalgleish*, town representative of Ford, Shapland & Co., Ltd., also writes warning the trade against a swindler who appears to be the same man, or at least his "stunt" is the same. He is described as of good appearance and very persuasive. The cheques he presents are signed "Johnson," "Williamson," "Hudson," or "Jackson."

## Legal Queries.

**Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.**

*Fiat Justitia* (221/3).—A chemist engages as manager a man who has been rejected by the military authorities on account of pericarditis. The manager contracts rheumatic fever, and also suffers from his heart-trouble, and is incapacitated from work. After paying the manager his salary for the first fortnight of his illness the chemist gives him a month's notice, terminating the engagement. The manager will not be able to work for a considerable time, and, owing to his absence, the chemist has been forced to close the shop. Is the manager entitled to a month's salary? [We are of opinion that, unless the contract of service otherwise provided, the manager is entitled to a month's salary as from the date he received notice terminating the engagement.]

*H. W. N.* (244/40) writes that the following prescription of a West-end doctor was brought into the pharmacy a year ago to be dispensed:

| | |
|---|---|
| Ol. santal. flav. ... ... ... | ʒvj. |
| Ol. piment. ... ... ... ... | ʒj. |
| Ol. cassiæ ... ... ... ... | ℥ss. |
| Spt. rect. ad ... ... ... ... | ℥iij. |

ʒj. ter in die sd.

Since then other people have applied for the mixture, chiefly by post, ordering it as mixture Y 212.2 (the prescription-book number), but no reference is made as to the use to which the mixture is to be put. Can we supply this without running any risk under the Venereal Disease Act? [Our view is that chemists are allowed to supply drugs to venereal patients, but, as you are aware, the Pharmaceutical Society takes the opposite view. It appears that only a case in the courts can now settle the matter; and as it is very unlikely that a person with gonorrhœa will come forward, owing to the publicity which would follow a test-case, matters are likely to remain at a deadlock for an indefinite period.]

## Miscellaneous Inquiries.

**When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.**

*T. W.* (198/7).—RESTORING GREY HAIR.—Your suggestion of a harmless colour added to brilliantine, to restore the colour of the munition-worker's hair which has turned grey, is not, we think, feasible. It would be better to recommend a good stimulant application for the hair. The following has given satisfaction for many years, and restores the colour in cases where a mild stimulant is needed:

| | |
|---|---|
| Almond oil ... ... ... ... | ℥ss. |
| Solution of ammonia ... ... | ʒiij. |
| Tincture of cantharides ... ... | ʒvj. |
| Perfume ... ... ... ... | q.s. |
| Distilled water ad ... ... ... | ℥vj. |

Mix.

*P. A. M.* (Egypt) (213/73).—(1) Depilatory:

| | |
|---|---|
| Barium sulphide (in fine powder)... | 1 to 3 parts |
| Starch-powder ... ... ... | 3 parts |

Mix into a paste with water at the time of using. Spread over the part required, and remove at the end of five or ten minutes.

(2) ESSENCE OF RENNET.—The following is one of the recipes given in "Pharmaceutical Formulas":

| | |
|---|---|
| Dried vells, shaken free from salt and cut small ... ... ... | 24 lb. |
| Salt ... ... ... ... ... | 12 lb. |
| Rectified spirit ... ... ... | 4 gals. 32 oz. |
| Sherry ... ... ... ... ... | 1 gal. |
| Water ... ... ... ... ... | 18 gals. |

Macerate for a week, strain, and set aside to clear, adding a few ounces of fullers' earth before so doing. Decant and filter.

*S. S. Co.* (Bombay) (213/42) and *J. C. M. & S.* (Bombay) (213/72).—BOOKS ON PERFUMERY.—See *C. & D.*, December 1, 1917, p. 52.

*H. J. L.* (Penang) (219/13).—PARAFFIN TREATMENT OF BURNS.—Ambrine and its substitutes (see *C. & D. Diary*, 1918, p. 69) are melted and sprayed whilst hot on to the burn. The protective coating of paraffin wax forms an effective method of healing the burn, provided that the surface is not septic.

*S. S.* (228/3).—THE DOSE OF APOMORPHINE.—To procure sure and prompt emesis in dogs, apomorphine hydrochloride is given hypodermically in doses of $\frac{1}{30}$ to $\frac{1}{10}$ gr. For fox-terriers $\frac{1}{20}$ gr. should be effectual.

*Gregory* (253/11).—FIBROSITIS OR MUSCULAR RHEUMATISM may be due to various causes, such as excess of income (food) over expenditure (exercise). If massage has done good, it is probable that more exercise may be beneficial—digging and walking are the best. On the other hand, the condition has lately been attributed to a scarcity of fat in the food—the remedy for which is obvious. Cold baths (after forty) are another cause. Every case has to be considered on its merits. Drugs are useless. We do not know of any special book on the subject.

## Retrospect of Fifty Years Ago.

**Reprinted from "The Chemist and Druggist," Jan. 15, 1868.**

### Corner for Students.

[Under this head we propose to give queries and problems that may be profitably considered and worked out by our younger readers. We expect to receive problems as well as solutions, and trust that in the course of a few months this little corner will be well filled with the results of much hard thinking. At present we shall simply give a single specimen of the sort of problems we hope to receive.]

RELATIVE WEIGHTS OF THE OFFICINAL ACIDS.

Give the weight of a pint of each of the following acids of the Brit. Pharm., 1867: *Acidi*: Aceticum, Acet. dil., Hydrochloricum, Hydrochlor. dil., Nitricum, Nitricum dil., Sulphuricum, Sulphuricum dil., Sulphurosum. The weights must be calculated from the specific gravities given in the Pharmacopœia, and expressed in grains with three decimal places.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, JANUARY 12, 1918

This Supplement is Inserted in every number of The Chemist and Druggist.

# CHEMISTS' TRANSFERS.

## Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

**Telephone Number: City 2283**

**May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.**

1.—WEST END.—Lock-up Pharmacy; Retail and Dispensing; returns £1,200; gross profit about £700; books open to inspection; vendor, having taken up another business, will make some sacrifice for a speedy transfer.

2.—LONDON, N. (Distant Suburb).—Ready-money Business, situate in shopping thoroughfare; returns about £1,100; gross profit £561 and net £450; comfortable residence with small garden; terms, simply valuation of stock and fixtures.

3.—NORTHERN SUBURB.—Good-class Business; excellent situation; returns under Manager between £1,100 and £1,200; gross profit £446 and net £300; attractive well-fitted shop, with comfortable residence; vendor's own property; new lease; very little opposition; price £450, or simply the valuation of stock and fixtures.

4.—LONDON (Suburban), S.W.—Retail and Dispensing Business, situate in main thoroughfare of good middle-class locality; returns over £1,600; the shop is well fitted and thoroughly stocked; convenient residence, with private entrance and garden; price £500; stock and fixtures were recently valued at £730; this is an opportunity seldom met with.

5.—BANKS OF THE THAMES.—Retail and Dispensing Business, situate in busy main thoroughfare; returns between £1,800 and £1,900; *net profit* £461; books open to inspection; price £850; stock and fixtures recently valued at £650.

6.—KING'S CROSS (within easy distance of).—Old-established Business in good position in populous district; the net income is £386, and under energetic management can be increased; good house; rent £50; price £600.

7.—LONDON, N.—Middle-class Business; Retail Dispensing, and good sale for own proprietaries; gross receipts £800; *net profit* £200; price £250, less than value of stock and fixtures.

8.—YORKS.—Drug Stores; good opening for a qualified Chemist; returns, present rate, £730 at fair prices; no immediate opposition; terms, valuation of stock and fixtures.

9.—WESTERN COUNTY (Health Resort).—Good-class Retail and Dispensing Business; established many years; returns average over £1,200 per annum; gross profit £530; rent £55; price about £950, estimated value of stock and fixtures.

10.—BOURNEMOUTH.—Retail and Dispensing Business; held by vendor many years; returns £2,000 yearly at fair prices; terms, goodwill, £100; stock and fixtures by valuation.

11.—WILTS.—A profitable, well-established Country Business, situate in large military centre; returns, under Assistant, £50 per week—present rate less—at full prices; rent moderate; no opposition; price about £650.

12.—TUNBRIDGE WELLS (near).—Good-class Retail and Dispensing Business, situate in a beautiful district, and practically unopposed; gross receipts £850; *net profit exceeds* £250; modern-fitted Pharmacy, with capital residence and garden stocked with fruit and rose-trees; valuation terms entertained.

13.—PARTNERSHIP.—A Partner required in a very old-established Business, situate in a Home County; returns last year exceeded £4,000; excellent opening for an energetic man to succeed to the whole within a few years; valuation terms entertained.

14.—OXON.—Good-class Retail Dispensing and Photographic; position good; returns about £1,000 yearly; terms, valuation of stock and fixtures.

# VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**

**Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.**

# BUSINESSES FOR DISPOSAL.

**3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.**

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

LONDON, N.—Shop, d.f. Chemist's; completely and well fitted; established over 20 years; chance to pick up good business cheap; rent £60. Owner, 160 Stoke Newington Road, N.

LONDON, S.W.—Genuine Business for Sale in good residential locality; returns £1,900, increasing yearly; proprietor will manage for a time if necessary; about £500 required. Apply 251/14 Office of this Paper.

MANCHESTER (Suburb).—Old-established Chemist's Business; shop and residence; rent £40; late proprietor dead, widow retiring; returns £1,000; cash business; full investigation; stock and fittings about £500, or valuation: early sale desired; low price will be accepted. Apply William Walker, Solicitor, 20 Cross Street, Manchester.

DEATH VACANCY.—The old-established Business of the late Mr. George Wright, Chesterfield, carried on by him for over 30 years; sound connection; excellent and profitable turnover; expenses small; price, valuation. Apply Exors., c/o W. Brinson, The Laurels, Chesterfield.

GENUINE Business for Sale; beautiful neighbourhood, near sea, North Devon; returns about £500 at good profit, well stocked; good house; chance of lifetime; low rent; improving neighbourhood; suit qualified or unqualified; price about value of stock and fixtures, £225. Apply 260/13, Office of this Paper.

# BERDOE & FISH

## VALUERS & TRANSFER AGENTS,

***35 Jewry Street, Fenchurch Street, E.C.3.***

Telephone: 1809 CENTRAL.

### NO CHARGE TO PURCHASERS.

1.—SOUTH COAST.—First-class Retail and Dispensing Business, with scope for large increase; commanding position; low rent; elegant fittings and good stock; owner retiring through old age; valuation only required; all over £450 can remain.

2.—KENT (Suburb).—Good progressive Middle-class Business; no booking; returns £1,850; *net profit* £450; books properly kept; convenient house; handsome Pharmacy, heavily stocked; price £50 and valuation; about £1,000; strongly recommended.

3.—NORTH WALES COAST.—Unopposed, sound Light Retail, returning £700; *net profit* £250; up-to-date Pharmacy, well-fitted and stocked; price £300 or valuation.

4.—LEICESTERSHIRE.—Sound Cash Drug Store in small town; returns average £630; *net profit* £200; good house and Pharmacy, well stocked; plenty of scope in qualified hands; price £300 or valuation.

5.—LONDON, S.W. (Good Residential Suburb).—Sound, progressive, good-class Business; returning over £1,900; main road position; good residence; attractive Pharmacy; well stocked; price for quick sale £500; only requires seeing.

6.—NORTH LONDON (Healthy Suburb).—Sound progressive Cash Business for immediate disposal through serious illness; returns £1,150; *net profit fully* £300; fine modern Pharmacy; excellent main road position; low rent; price £750 or offer.

7.—LONDON (Distant Suburb).—Good middle-class Cash Retail; chiefly Prescribing; returns £14 weekly, increasing; *net profit about* £300; very low rent; fully stocked; price £475 or valuation; £200 cash; balance by instalments; trial allowed.

### STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early, having only a few open dates between now and the end of March. Full particulars and terms sent on application.

***Ex Prize Court, and various Steamers***

MESSRS.

# TOPLIS & HARDING

Are instructed to SELL by AUCTION at

The Association Minor Hall, Mount Street, MANCHESTER,

**on Tuesday, January 29, 1918,**

At 12 noon precisely, a large quantity of

## Aniline Dyes (Acid and Sulphur Colours),

MADRAS INDIGO, NATURAL GUM, ANHYDROUS LANOLINE, PRUSSIAN BLUE, BARK EXTRACT, BLACK WAX, Etc. Etc.,

also Miscellaneous Goods comprising 10,000 yds. NEEDLEWORK, EMBROIDERY, Embroidered Gown Voile, about 80 gross CORSET BUSKS, 4,000 yds. Cigar Lighter Cord, Indigo Serge 58 in. wide, 2 cases of Sponges, 160 Hamper Fittings, 1,000 yds. "ECRU" and Steel Grey Cotton Serge Lining, etc. etc.

The goods will be on view FOUR DAYS prior to the sale. Catalogues may be obtained and samples of the Dyes drawn at the AUCTIONEERS'

Offices, 21 Spring Gardens, Manchester.

**Saleable Stocks of any description may be included in these Monthly Sales.**

*FOLLOWING SALE—END OF FEBRUARY.*

***Ex PRIZE COURT, VARIOUS STEAMERS, &c.***

# Messrs. TOPLIS & HARDING

Beg to announce that their next SALE BY AUCTION of

# Drugs, Chemicals, Dyes

## DRUGGISTS' ACCESSORIES, &c.,

Will take place on WEDNESDAY, JANUARY 23, 1918, at the LONDON COMMERCIAL SALE-ROOMS, and will include (inter alia) the following:

**Cod Liver Oil, Olive Oil, Castor Oil, Aniline Oil, Liquid Paraffin, Pulv. Iodoform, Cresol, Menthol, C. S. Tragasol, Gum Tragon (Powder), Phenol, White Maize Dextrine, Formaldehyde, Norwegian Cod Liver Oil, Sulphur Rock, Sodium Silicate, Essence of Spices, Pure Perfume, Anhydrous Lanoline, Powdered Gelatine, Mint Tablets, Liquid Somatose, Powdered Somatose, Asbestos Powder, Ether, Essence of Medoc, Bromina Salts, Naphthaline Flakes, Soap Tablets, Night Lights, Corks, Asthma Cigarettes and Powders, Respirators, Catheters, Druggists' Balances,**

## 100 Gross GLASS BOTTLES & STOPPERS.

**Earthenware Jars, Glass Sheets, Bungs, Corks, Stoppers, 28-gross Tins, Tubes, Cardboard Boxes. A quantity of**

## BRITISH LYSOL (in Barrels, Tins, and Tubes).

**46,000 Squares and Discs Greaseproof Paper, &c., and 3 TONS SOFT SOAP in barrels.**

**Saleable Stocks of any description may be included in this sale or in the following sale, mid-February, if immediate notice be given to the Auctioneers, at their**

**Offices: Jewry House, 27 & 28 Old Jewry, E.C. And at Manchester.**

Telephone—CITY 8217. Telegrams—"TOPLIS LONDON."

# DISSOLUTION of PARTNERSHIP

NOTICE IS HEREBY GIVEN that the partnership heretofore subsisting between us, the undersigned, James Herbert Crispe and William Eugene Gower, carrying on business as Wholesale Chemists and Druggists and Vendors of Chemists' Sundries at 82 Clerkenwell Road, in the County of Middlesex, under the style or firm of Butler & Crispe, has been dissolved as from the 31st day of December, 1917, by mutual consent.

All debts due to or owing by the said late firm will be received and paid by the said James Herbert Crispe.

Dated this 31st day of December, 1917.

JAMES HERBERT CRISPE.
WILLIAM EUGENE GOWER.

# PROPERTY FOR SALE.

TO CHEMISTS AND OTHER INVESTORS.

NEWPORT, SALOP.

VALUABLE OLD-ESTABLISHED BUSINESS PROPERTY.

MESSRS. POOLER, DAVIES & WHITE will offer for Sale by Public Auction, on FRIDAY, the 1st day of February, 1918, at the Royal Victoria Hotel, Newport, Salop, at 5 p.m., and subject to conditions:—

The centrally situated FREEHOLD PROPERTY now in the occupation of Mr. J. H. Llewellin, Chemist, having a commanding position in High Street, Newport, Salop, comprising Dwelling House, Shop, Outbuildings, and large Garden. Town Water and Gas.

A Chemist's Business has been carried on here for nearly a century. Vacant possession on completion.

Further particulars may be obtained from Messrs. Liddle & Heane, Solicitors, or the Auctioneers, Newport, Salop.

# FOR SALE.

FOR SALE, 20 lb. Synthetic Rose; 60s. per pound. Apply 259/17, Office of this Paper.

# AGENCIES.

EGYPT.—French Representative established in Egypt since 1910, having wide experience and a first-class connection among Chemists and Druggists, is prepared to represent English Manufacturing Chemists and Druggists and makers of Pharmaceutical and Toilet Specialities; high-class references to English and French Houses for which agencies in force. Reply to P.O. Box 1505, Cairo, Egypt.

# TO LET.

SHOP to be Let; double-fronted; splendidly situated in shopping centre of main road, and fitted as a Chemist's; occupied by Chemist for nearly 50 years; good business just closed owing to illness; fixtures at valuation; rent £50 per annum, tenant paying rates and taxes. Apply Harry Hooper & Co., Surveyors and Valuers, Estate Offices, Millwall, 14.

# PARTNERSHIPS.

THE Manager of a high-class Dispensing business in most select S.W. district would like to join with another for the purchase of the business; £750 would be required for half-share. Apply to "Manager" (261/36), Office of this Paper.

# SITUATIONS OPEN.

**3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.**

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

## RETAIL.

BIRMINGHAM (Suburb).—Young lady Assistant required for good-class Light Retail and Dispensing business; comfortable and permanent berth. "P. R." (260/301), Office of this Paper.

BRADFORD.—Wanted (at once), unqualified Assistant; good worker and reliable; ineligible. State full particulars, age, experience, and salary required to J. Savage & Co., Ltd., Listerhills Road, Bradford.

BRADFORD.—Wanted, lady Dispenser and Assistant, and for putting up stock, or Improver. Apply, stating age, experience, and salary required, to Savage & Co., 254 Manchester Road, Bradford.

EAST LONDON.—Manager for Branch; quick trade and N.H.I. Dispensing; can live on premises if desired; good wages and commission; hours 9 to 8, Saturdays 9, one half-day and one whole day alternate weeks, duty alternate Sundays. Noble's, 2 Well Street, Cable Street, E. 1. Not for this branch.

EAST SUFFOLK AND IPSWICH HOSPITAL (425 beds).—Wanted (at once), Pharmacist to take charge; salary £180 per annum. Apply Arthur Griffiths, Secretary, The Hospital, Ipswich.

EASTBOURNE.—Wanted (at once), lady or gentleman Junior Assistant (outdoors) for high-class Dispensing business. State salary with usual particulars, enclosing carte, to H. R. Browne, Pharmaceutical Chemist, Eastbourne.

GLOUCESTER.—Assistant required (male or female); outdoors; good-class Dispensing and Light Retail. State full particulars, with salary, to Ward & Woodman, Gloucester.

HULL.—Wanted, lady or gentleman Assistant; unqualified; comfortable berth; outdoors. State full particulars, age, salary, etc., to H. Leggott, Chemist, Beverley Road, Hull.

HULL.—Wanted, Assistant (outdoors); used to good-class Retail and Dispensing business. Send full particulars, age, reference, and salary required, S. T. Kirton, Chemist, 53 Savile Street, Hull.

KILBURN, N.W.—Part-time helper for brisk business, with N.H.I., principally for evenings; any reasonable hours can be arranged to suit applicant. R. R. Pratt, 94 Canterbury Road, Kilburn, near Queen's Park Tube, Bakerloo.

KNUTSFORD.—Assistant or Junior for good-class and mixed country business (outdoors). State salary, experience, etc., to Horrocks, Chemist, Knutsford.

LANCASHIRE.—Young lady Assistant required for Light Retail and Dispensing business; comfortable and permanent berth; would suit anyone just finishing apprenticeship. "B. S." (260/302), Office of this Paper.

LIVERPOOL.—Wanted, lady Assistant; good all-round experience; Dispensing essential; hours 8.30 to 6.30, no Sunday duty, half-day Wednesday. Apply G. H. Cole, The Pharmacy, Blundellsands.

LONDON, S.W.—Manager for good-class Branch business; good salesman and Window-dresser, with up-to-date business ideas; permanency for right man. Apply, full particulars, salary, age, height, when disengaged, to C. R. Toyne, 26 High Street, Putney, S.W.

LONDON, S.W.—Young lady required for high-class Pharmacy; must be a capable Dispenser and have had some Counter experience; permanent and progressive berth. Apply "S. S." (260/304), Officer of this Paper.

LONDON, S.W.—Wanted for Dispensing business, an experienced Assistant; salary £3 per week. Apply "H. R." (261/360), Office of this Paper.

LONDON, W.—Required (at once or shortly), an energetic, capable Assistant as Senior for outdoor permanency; must be good at Counter and Proprietary stock. W. V. Wright, 25 Broadway, Hammersmith.

MANCHESTER.—Qualified Manager required for business in a working-class district; permanent berth, with a liberal interest in the profits offered. "T. S." (260/3), Office of this Paper.

MANCHESTER DISTRICT.—Wanted, qualified Manager for Branch; Light Retail and a little Insurance Dispensing; comfortable house if required. Apply, with full particulars, age, experience, salary expected, to 259/40, Office of this Paper.

SIDMOUTH (South Coast, Devon).—Reliable Assistant or Junior (either sex) required for high-class Dispensing business; outdoors; comfortable berth; short hours; liberal salary; railway fare paid. Apply, giving all particulars, to Hinton Lake & Son, High-class Chemists.

SOUTH OF ENGLAND; Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

10 CHESTER PLACE, Hyde Park Square, London, W. 2.—A lady Assistant wanted, accustomed to Dispensing; hours 9 till 6.30, no Sunday duty. Apply Maitland, Son & Lindley.

WEST MIDLANDS.—Qualified Chemist, ineligible for the Army, to manage Light Retail and Dispensing business in populous town; commission on profits. Applicants should state particulars of experience, age, and salary desired in first letter. Apply 258/31, Office of this Paper.

WEYBRIDGE.—Wanted, lady Assistant, chiefly for Dispensing Counter; outdoors. Kindly give particulars, experience, age, salary, etc., and enclose photo if possible, Amos & Ashworth, Church Street, Weybridge.

WORTHING.—Wanted, a capable Junior Assistant (lady or gentleman) for good-class Dispensing and Retail business. Apply, with full particulars and salary required, to W. Aston, Pharmaceutical Chemist, 6 Burlington Terrace, Worthing.

A PERMANENCY is offered to a qualified Chemist (lady or gentleman) with good references. Apply, with full particulars, to C. H. Griffiths, Droylsden, Manchester.

ASSISTANT wanted; unqualified (female or ineligible male), with Pharmaceutical and good Optical experience; one with T.S.M.C. or B.O.A. diploma preferred; country town; high-class business; delightful neighbourhood. State salary required, age, and previous positions, also, if ineligible, grounds of ineligibility, Allison, Chemist, Castle Pharmacy, Arundel.

ASSISTANT, male or female; must be accurate and quick Dispenser; wanted at once. Apply, with full particulars, to A. C. Duke, 138 High Road, Willesden Green, N.W. 10.

COOPER, SON & CO., LTD., require a qualified Assistant (lady or gentleman) for Dispensing. Apply by letter, giving full particulars, to "A. J. B. C.," 80 Gloucester Road, South Kensington, S.W.

DISPENSER wanted for Black Country business; lady or gentleman, with Minor qualification. Apply Eades, Ltd., 21 Owen Street, Tipton, Staffs.

EXPERIENCED lady Counter hand wanted for Woolwich. State salary and references to 258/33, Office of this Paper.

JUNIOR Assistant (lady or gentleman) for good-class Dispensing and Retail. Full particulars to Percy B. Gray, Pharmaceutical Chemist, Rugby.

LADY Assistant with Hall qualification; one accustomed to Retail business preferred. State age, salary required, and enclose photograph, Thompson & Capper, Ltd., Chemists, 51 Piccadilly, Manchester.

LADY Dispenser wanted (at once); non-resident; about four hours per week-day. Applications, stating qualifications, experience, and salary required, with full particulars and copies of recent testimonials, to Secretary.

LADY Assistant (Dispensing department) immediately; hours 9 to 7, Thursdays 1, Saturday 8.30. State age, height, experience, qualification, and salary required (photo if possible), G. T. W. Newsholme, Ltd., 27 High Street, Sheffield.

MANAGER, qualified, to commence duties 14th inst. (near City), for brisk Store business; no Sunday duty; easy berth; salary £3 10s. to commence. Apply "X." (233/46), Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

QUALIFIED Assistant wanted for City business; hours 8.30 a.m. till 6 p.m., Saturday 1 p.m.; salary £3. Address F. W. T., 93 Leadenhall Street.

QUALIFIED lady or ineligible man wanted (at once) as Dispenser, and help widow carry on her business; West of England. State age, salary, and full particulars, "H. D." (260/16), Office of this Paper.

QUALIFIED Manager required for about three months, either lady or gentleman, for good-class seaside business; live indoors. State experience, age, references, salary required, and send photo if possible, to Holman, Ham & Co., Ltd., Market Street, Exeter.

QUALIFIED young man, single and rejected, required immediately; permanent berth, with good prospects of advancement. State age, salary required, and when at liberty, "H. L." (260/303), Office of this Paper.

QUALIFIED Assistant to take charge of small Branch; ineligible. Apply, with full particulars, salary required, to Deighton & Smith, Pharmacists, Bridgnorth.

QUALIFIED Assistant wanted for Light Retail and Dispensing; comfortable berth; easy hours (outdoors). Usual particulars and photo, if possible to Wallace Pring, 28 Chatterton Road, Bromley.

REQUIRED for country business, unqualified lady Assistant; used to Counter work and having had general experience; small knowledge of Dispensing preferable. Apply "L." (223/49), Office of this Paper.

SECOND Assistant wanted; lady or gentleman; one with some all-round experience preferred; good-class business; hours easy. In reply give full particulars, photo if possible, which will be returned promptly, T. L. Nicholls, Pharmacist, Chelmsford.

UNQUALIFIED, ineligible, for Light Retail and Photographic trade. Apply, stating full particulars, to "Nottinghamshire" (262/21), Office of this Paper.

WE have a vacancy for Manager which will suit elderly qualified man; easy hours and light duties. Also for an unqualified Assistant. Apply, with full details, to "Aspirin," c/o Heath Bros., Blackfriars, Manchester.

WANTED, capable Assistant; outdoors; Light Retail; comfortable berth and light hours; suit elderly man. State experience, references and salary required. Harvey, Knaphill, Surrey.

WANTED, smart unqualified Assistant for Drug Counter and Dispensing; ineligible; must have had experience in high-class Store business; salary 60s. per week and commission. Apply, giving full particulars of experience, age, and when disengaged (treated in confidence), "L." (233/47), Office of this Paper.

WANTED, lady Assistant for Dispensing and Retail. Apply, with full particulars, salary required, to Deighton & Smith, Pharmacists, Bridgnorth.

WANTED, outdoor Assistant; lady or gentleman (ineligible); unqualified or Hall. Full particulars and salary required to S. S., 436 High Road, Streatham, S.W. 16.

WANTED (at once), an Assistant; lady or gentleman; qualification not essential, but must have some experience of family Counter trade and Dispensing. Apply C. Bell, Pharmacist, 20 Sheep Street, Rugby, stating experience and salary required.

WANTED, an Assistant; experienced Dispenser (ineligible for the Army). Apply to W. F. Paemore, 320 Regent Street, W. 1.

YOUNG lady or youth required for a good-class Retail and Dispensing business. Terms upon application to A. Thresh, Pharmacist, Buxton, Derbyshire.

## WHOLESALE.

A FIRM interested in the Malt Vinegar trade are open to appoint a Brewer and Chemist as Manager of Department. Write in confidence, with full particulars, stating experience, salary required, to "Brewvin" (231/46), Office of this Paper.

ANALYTICAL Chemist; lady; able to perform all the usual British Pharmacopœia tests, including alkaloidal assays; also to ascertain alcoholic strengths. Letters only, stating salary required, to "L." (232/71), Office of this Paper.

ANALYTICAL Chemist (ineligible) required in Assay Laboratory of London Wholesale Druggists; capable of undertaking P.B. tests and ascertaining alcoholic strengths. Full particulars and commencing salary required to "L." (232/710), Office of this Paper.

DRUG Assistant wanted as Pricing Clerk. Apply Ayrton, Saunders & Co., 34 Hanover Street, Liverpool.

LONDON WHOLESALE FIRM require Assistants for their Foreign and Proprietary Perfumery departments; ineligible for military duty. Apply by letter, stating salary required and previous employment, "T. W. G." (233/20), Office of this Paper.

ORDER Clerk and Stockkeeper, either sex (at once); preference with experience Wholesale Grocery, Druggist Sundry; or packed proprietary business; good salary and progressive; permanency for good worker; state age, salary, and experience. Apply 259/16, Office of this Paper.

REPRESENTATIVE wanted by an old-established firm of Chemical Manufacturers; must be militarily ineligible, of good address, and capable of booking orders for fine and heavy Chemicals; one with connection amongst technical trades, bleachers, dyers, etc., preferred. Apply "L." (228/13), Office of this Paper.

REPRESENTATIVES required to take up a well-advertised Proprietary on commission terms; 15 per cent. first orders, 10 per cent. on repeats. "H. L." (260/305), Office of this Paper.

TRAVELLER required by old-established firm of Wholesale Druggists, to call on Doctors and Chemists in South London; preference given to one with a connection. Apply, with full particulars, "Drugs" (231/55), Office of this Paper.

TRAVELLER wanted; must have good connection with Stores, Chemists, etc.; a share in business offered to smart gent with moderate capital. Full particulars to "Dainty," 43 Thurlestone Road, West Norwood, London, S.E. 27.

WANTED by firm of Manufacturing Chemists in Lancashire, one or two men who have been used to Extract and Distilling Plant. Write full particulars, experience, salary, age, etc., "L." (228/60), Office of this Paper.

WANTED, a Tablet Maker, capable of taking sole charge of the manufacture of all kinds of Compressed Tablets. Apply, stating experience and wages required, "L." (233/31), Office of this Paper.

WET Floor and Laboratory hands wanted. Apply Willows, Francis, Butler & Thompson, 40 Aldersgate Street, E.C.

# SITUATIONS OPEN.

## (Colonial, Indian and Foreign.)

**3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.**

RANGOON.—Assistant; qualified; ineligible; about 25; salary 300 rupees per month, 325-350; three years' agreement; passage paid out and home. Apply 261/28, Office of this Paper.

# SITUATIONS WANTED.

**1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.**

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

## [HOME.]

## RETAIL.

A PERMANENCY is desired as Manager or Managing Assistant in good-class business by one who is experienced in all branches; good Counterman and Prescriber; unqualified; aged 35; married; C3. Fullest particulars requested first letter. "Rhei," 30 Leas Road, Guildford, Surrey

A QUALIFIED lady wants a Dispenser's post. Apply "A. B. C.," c/o 13 Tavistock Place, London, W.C. 1.

AS Locum or Temporary Manager; qualified; over age; abstainer; excellent references; disengaged. Apply 260/14, Office of this Paper.

AS MANAGER or Locum; qualified; well experienced; West of England preferred. "Pharmacist," c/o Mr. Truscott, Delabole, North Cornwall.

AS Manager small business; view purchase; country, unopposed, preferred. J. S., 139 Linthorpe Road, Middlesbrough.

ASSISTANT, young, qualified, ineligible, requires post. Sayer, 4 John Street, Barnard Castle.

CAPABLE, unqualified Pharmacist, complete exemption, desires temporary or permanent position. Carlton, 6 Norfolk Road, Merton.

CERTIFICATED lady Dispenser, experienced, holding good testimonials, desires post with Doctor or at Institution out of London; West preferred. M., 337 Archway Road, N. 6.

CHEMIST requires immediate appointment; outdoors; any locality; middle-class business preferred. "Qualified" (264/1), Office of this Paper.

DISABLED Pharmaceutical Chemist would undertake pricing of stock or other clerical work at his own address. Greig, 17 Lennox Road, Worthing.

DISPENSER; Doctors, Hospitals, and Army experience; splendid references; abstainer; widower; 40; unqualified; disengaged now; distance immaterial. Cameron, 5 Corporation Buildings, Lyme Regis, Dorset.

DISPENSER (lady), ten years' experience in Institution and Doctor's Dispensing, requires post; locum or permanent; disengaged now. Apply 261/9, Office of this Paper.

DISPENSER; part-time; Doctor or Institute; mornings up to 1 o'clock Monday, Tuesday, and Saturday evenings, and other evenings after 6.30 p.m. Apply 262/29, Office of this Paper.

JUNIOR, age 20, ineligible, desires post in London; at liberty the middle of February. For fuller particulars apply 258/29, Office of this Paper.

LADY Dispenser, Hall qualification, two years' experience, desires post with Doctor; Wimbledon or Putney district preferred. N., 122 Dora Road, Wimbledon Park, S.W.

LADY Dispenser requires work N. London; Doctor preferred; Hall certificate; bandaging and medical, bookkeeping. Davis, 56 Hyde Road, Hoxton, N. 1.

LADY Assistant; some experience Counter and Stock; near Leicester or Nottingham preferred. Apply 261/5, Office of this Paper.

LADY; 25; unqualified; excellent experience in Dispensing and Counter. Apply 262/38, Office of this Paper.

LADY Dispenser (Hall) desires post (permanent); locum or part-time; experienced; good references; Institution or Doctor. Apply 262/27, Office of this Paper.

LADY desires post with Chemist or Doctor (two years' Dispensing training), and slight Retail; quick and accurate; Birmingham preferred. State particulars to "Levis" (262/13), Office of this Paper.

LADY Dispenser desires post; Hall certificate; London preferred; Chemist or Hospital. Apply 262/16, Office of this Paper.

LADY Dispenser; Hall qualification; Doctor or Institution; London. Apply 261/30, Office of this Paper.

LOCUM or Temporary Manager; country; disengaged; age 52; qualified; first-class experience and testimonials; energetic; booking forward. Dewey, 3 Helena Avenue, Margate.

LOCUM or Temporary Manager; qualified; 50; experienced; active. Apply 261/27, Office of this Paper.

MANAGER; unqualified; 34 years of age; good Dispenser and Stockkeeper, smart Salesman; 16 years' experience. Roberts, 33 Hamilton Street, Chester.

MANAGER; qualified; discharged soldier; locum or permanency. Hunter, 3 Prudhoe Street, Alnwick.

MANAGER or Assistant (unqualified) in good-class business; experienced Counterman, Dispenser, and Prescriber; disengaged; married, no family, tall, middle-aged. Chemist, 122 Coventry Road, Birmingham.

MANAGER; qualified; over military age; disengaged middle of February. Salary and particulars to "Qual" (260/7), Office of this Paper.

MANAGER or Senior; qualified; 35; discharged Army. Apply 257/35, Office of this Paper.

MANAGER; qualified; excellent experience; successful Salesman, Buyer; energetic; references; disengaged; ineligible. "Aurant" (262/23), Office of this Paper.

MANAGER; disengaged shortly; tall, energetic, successful; London and provincial experience. "Pharmacist" (262/3), Office of this Paper.

OFFICE, Showroom, or Representative.—Advertiser, ineligible, fully competent to undertake either of these positions; undeniable references; well known. Apply "C." (262/17), Office of this Paper.

PHARMACEUTICAL Chemist, 28, married, invalided, requires post for Dispensing or Laboratory; good experience and references. Apply, with full particulars as to salary, etc., to "Major," 60 Albert Street, Spalding.

PHARMACIST (lady) requires part-time work; Leamington or Coventry. Apply 260/9, Office of this Paper.

PHARMACIST (26) desires engagement for a few weeks; highest references; capable, reliable. Apply 259/38, Office of this Paper.

PHARMACIST, qualified, over military age, first-class London, West-End, and provincial experience, steady and active, seeks position as Manager or Senior. Full particulars, 262/20, Office of this Paper.

QUALIFIED, 30, rejected, West-End and all-round experience, Photography, seeks Managership or responsible position. Apply 261/20, Office of this Paper.

QUALIFIED wants post, with two or three half-days off per week; Manchester or Bradford; Hospital; Retail experience. 335A Bowling Old Lane, Bradford.

QUALIFIED; elderly; part or full time; steady and reliable; London or near. Apply 262/10, Office of this Paper.

QUALIFIED (24), disengaged, requires part-time berth; afternoons 2-5; N.W. district preferred. Jones, 55 Sandringham Road, Golders Green, N.W. 4.

QUALIFIED, twice rejected, last rejection June, requires post; London preferred. Jones, 43 St. James's Road, S.W. 9.

QUALIFIED, 29, holding Army discharge certificate and excellent testimonials, now disengaged, seeks permanency or "Locum"; experienced Italian Riviera, London West-End, City, suburban, South Coast, etc. C. H. Trump, 12 Taunton Park Road, Cheltenham.

QUALIFIED, 30, Grade III.; as Senior or Branch Manager. Pharmacist, 35 Hamlet Gardens, Hammersmith, W.

RELIEF; N.H.I., Dispensing, etc.; afternoons, evenings; competent; unqualified; 50. Also young Lady; 17; Packer-Learner. "R.," 408 Kingston Road, Norbiton, Kingston, Surrey.

RELIEF; Minor qualification; 44; male; two days weekly. Pharmacist, 9, Claverton Street, S.W.

TRAINED Nurse requires post as Dispenser to Doctor; near London preferred; Hall qualifications; would help in surgery. Gray, St. Mary's Home, Reading.

UNQUALIFIED, C3, age 24, desires Management or other responsible position; Store or private Chemist; Midlands preferred, but not essential; varied experience; excellent references; good worker; disengaged shortly. "Chemicus," 14, South Parade, Huddersfield.

UNQUALIFIED, 23, Grade III., 8 years' varied experience, desires change; present position four years. State salary offered and hours. Apply 260/12, Office of this Paper.

UNQUALIFIED; rejected; first-class experience in Retail and Dispensing; moderate hours; competent; abstainer. Apply 261/4, Office of this Paper.

UNQUALIFIED; ineligible; experienced; North preferred. Apply 261/21, Office of this Paper.

UNQUALIFIED (ineligible) Dispenser wants berth immediately; good experience (chiefly Doctors); good references. Apply "B." (262/6), Office of this Paper.

## WHOLESALE.

ADVERTISER, experienced all departments, wants position of trust; organiser and labour manipulator. "Adams," 85 Ledbury Road, Bayswater.

EXPERIENCED man, Drugs, Dressings, etc., Medicine Chest Fitter, desires position; disengaged. Apply 261/26, Office of this Paper.

FACTORY MANAGER.—Qualified Chemist, with Army discharge, wants responsible post; good organiser; used to control of male and female staff; special experience system work, also Toilet Preparations and Perfumery. Apply 260/150, Office of this Paper.

FIRST-CLASS Traveller, disengaged, twenty years' experience on road, ten years last firm, desires first-class house; London ground preferred. Apply 257/36, Office of this Paper.

LABORATORY Foreman; Toilet Specialities, Perfumery, Cream, Powders, etc.; above military age; many years' experience; highest references; London; disengaged. Apply 262/8, Office of this Paper.

MALT Extract Manager or Working Foreman; engagement wanted; 20 years' experience in making white, high diastaste, brown bread, and medical malt extracts, etc. Apply 262/30, Office of this Paper.

REPRESENTATIVE or Buyer; qualified; permanently discharged from Army; special knowledge of Essential Oils and Perfumery Products; good Wholesale and Retail experience. Apply 260/15, Office of this Paper.

REPRESENTATIVE (Chemist) requires appointment with high-class firm; thorough knowledge of the Drug and Essence trades; fourteen years' connection; excellent references. Apply 258/24, Office of this Paper.

SECRETARY, Cashier, Head Clerk.—Advertiser open for position with good firm; nearly 20 years' present situation; age 45. Apply "Jones" (240/21), Office of this Paper.

TRAVELLER, Chemist, 45, first-class connection, travelling London, suburbs, for well advertised Patent Medicine, desires another line, Drugs, Sundries, Patent Medicine. Apply 259/18, Office of this Paper.

TRAVELLER, connection London and suburbs, open for good going lines; part expenses. Apply 259/37, Office of this Paper.

TRAVELLER, with sound connection in Lancashire, seeks additional agency; Proprietary, Patent, or Food; experienced interviewer; live Salesman. Apply 261/7, Office of this Paper.

UNQUALIFIED, Grade III., desires position in good Wholesale house; 10 years' varied Retail experience; state salary offered, with prospects. Apply 260/4, Office of this Paper.

WANTED by a gentleman conversant with the Drug Trade, a position as Representative for any good selling Speciality, Toilet, or other proprietary article; free from military service; Yorkshire district preferred. R. W. Holmes, 21 Wickham Street, Beeston Hill, Leeds.

# WAR WANTS EXCHANGE.

*For the terms upon which announcements are inserted herein see Supplement for December 8, p. xliii.*

## WANTED.

Anthrasol (232/22)
Apenta water (232/22)
Argent. lactas. (232/22)
Chinoral (232/22)
Cycloform (232/22)
Eugallol (232/22)
Hygiama (232/22)
Moebius serum (232/22)
Naftalan (232/22)
Sodium and zinc sozoidol (232/22)
Theocin (232/22)

# MISCELLANEOUS.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone: 81 Lee Green.

Shares for Sale (free of commission, subject).—50 W. J. Bush £5 5% Preference, 75*s*., yielding over 6½%; 100 Bovril Deferred, 11*s*.; 100 Lever D 6½%, 20*s*. 6*d*. xd.; 140 International Sponge 6% Preference, 13*s*. 3*d*. xd.; 200 Peck Frean Preference, 17*s*. 3*d*. xd.; 180 G. B. Kent Preference, 16*s*. 6*d*. xd.

Wanted (subject).—Allenbury Preference, 19*s*.; Idris Debenture, £57 per £100; Wright Layman Preference, 18*s*. 9*d*.

Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOP FITTINGS.—10 ft. second-hand Drug Fitting, complete with 50 gold-labelled drawers, lockers, shelving, and pilasters, £11 10*s*.; 8 ft. ditto to match, £10 10*s*.; plate-glass and mahogany Perfumery Showcase, mirror back and glass shelves, mahogany desk at back, 4 ft. long, £6 10*s*.; Silent Salesman, 6 ft. high by 2 ft. by 1 ft., with four plate-glass shelves, £9 10*s*. Hundreds of other bargains. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London E.C. 1.

WANTED, Square or Round Tin Boxes, new or second-hand, for powdered colours; size 1 lb. and upwards; good prices given; cash payment. Williams Bros. & Co., Hounslow.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

PAPER

White Demy, Yellow Wove, Brown, White and Coloured Tissues, Small Hands (Whitey-Brown), Seidlitz Blue, English Kraffs and Browns. String, 8 oz. balls, 10/6 per dozen. Stout Parcel String, 16 oz. balls, 15/- per dozen. Samples on application, only if weight of ream is given or sample sent to match.

D. W. BULL,
4 Churchill Road, Homerton, E. 9.

THERE IS MONEY

to be made in the Photographic Department of your business, but the Developing, &c., must be WELL and QUICKLY done. We are experts, and return all work promptly. We pay return postage on all orders of 2/- or over. Send for our list and give us a trial.

STEAD & CO., Photographic Experts, Duke St., BRIGHTON.

TEA SWEETENERS One equal to a teaspoonful of Sugar.
14/- per 1000—Sell at 4 for 1d.—50% profit.
Also in 6d. and 1/- boxes.
SACCHARINE TABLETS Guaranteed 50% of .330 Saccharine.
17/3 per 1000, 120/- per lb.
Only terms, Cash with Order, Carriage Paid.
A. S. PRICE & Co. Ltd., Blackheath, Birmingham.

ALL CHEMISTS SHOULD STOCK ABDINE
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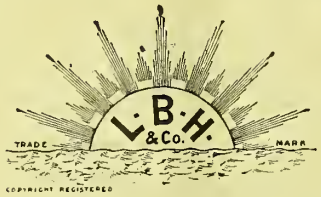


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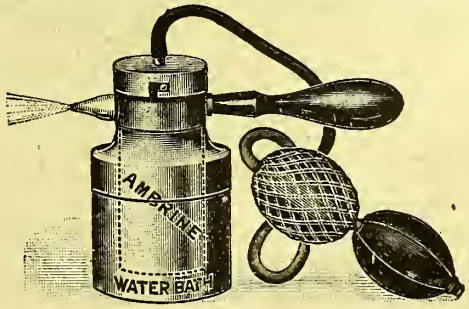


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**8 HARP LANE, LONDON, E.C. 3.**

*Telep.:* CENTRAL 9521. *Teleg.:* "DIURETIC, BILGATE, LONDON."

# BROMURAL
# DIURETIN
# EURESOL
# SANTYL
# STYPTOL
# TANNALBIN

*Price List and Particulars on Application.*

# MALLINCKRODT CHEMICAL WORKS OF CANADA LTD.

THE products of our manufacture are of the Purest and Highest Standard. We are in a position to offer the Mother Country and Sister Colonies a full line of PHARMACEUTICAL AND PHOTOGRAPHIC CHEMICALS.

**Acid Acetic 80%** — **Acid Acetic Glacial**
**Acid Pyrogallic** (Crystals and resublimed) — **Acid Gallic**
**Hydroquinone** — **Rhodol (Metol)**
**Trional** (Methyl-Sulphonal) — **Acid Tannic**
**Morphine Salts** — **Sulphonal**
**Paraldehyde** — **Hexamethylenetetramine**

MADE IN CANADA

## ACID ACETYL-SALICYLIC B.P.

(Pure Aspirin)

Manufactured at our Montreal Works. BRITISH MAKE.

*Lowest Prices for Wholesale Quantities.*

Cable Address: "Mallchem Montreal."

# GIGNOUX FRÈRES & CO.

*Manufacturers of Pharmaceutical Preparations.*

**Works at DECINES, near LYONS (France)**

OFFER

# EXTRACT OF MALE FERN

**Ethereal**

**guaranteed pure 24/25% Filicine.**

Solid Extracts of KOLA, COCA, CINCHONA, GENTIAN, etc.; all pharmaceutical extracts.

HYDROGEN PEROXIDE, chemically pure.

ETHER, 0.720—ANÆSTHETIC ETHER—ABSOLUTE ALCOHOL.

COLLODIONS of all kinds.

***SPECIALITIES:***

GELLOPLASTRE: an adhesive surgical and industrial tissue.

GELLO. Pure Alcoholic products in jelly form put up in tubes:—

GELLO-COLOGNE — GELLO-LAVANDE
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METALLINE: a liquid metallic solution for capsuling bottles and vials.

*London Agent:* R. Ansay, 44 Wilson St., Finsbury, E.C.

*Telephone: London Wall 3103.*

**WE SOLICIT OFFERS**

**for all kinds of Medicinal Plants and Herbs.**

*"Of all wastes, the greatest waste that you can commit is the waste of labour."*—RUSKIN.

# 'Continuity of Process'

ROWNSON DREW & CLYDESDALE LTD

THE OLD METHOD OF MOVING MATERIAL

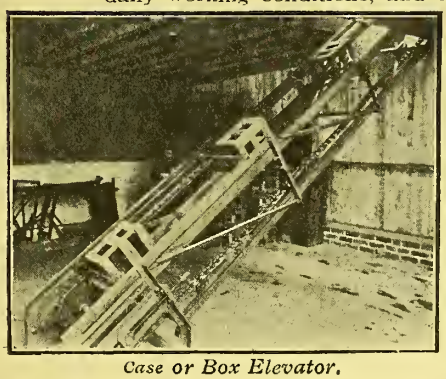
ONE OF OUR METHODS OF MOVING MATERIAL

***What it does:***—Our last advertisement explained what "CONTINUITY OF PROCESS" means. What it *does* is to tune up to fullest efficiency every department of a factory, by introducing gravity runways, hoists, stackers, and other mechanical means of moving your material in all its stages of manufacture. It uses the human element on productive work, and not as beasts of burden.

Where **"Continuity of Process"** is installed you never see a youth staggering with a 200 lb. load, working one-sixth of the day, and for the rest exhausted. Instead, that youth is employed on productive work which he does with full efficiency from morning until night; nor do you find delay between processes. These are regulated, no one machine is in advance of another, but the slowest is accelerated to the speed of the quickest.

**"Continuity of Process"** conducts a business from the raw material to the finished article with no waste of effort, with no waste of labour, with no waste of capital. Low working costs are its keynote.

Every business can introduce our **"Continuity of Process"** methods. We make a special study of each factory under its actual daily working conditions, and thereafter submit plans for systematising, and methods of elevating and conveying goods from point to point.



*Case or Box Elevator.*

By our methods treble the output is frequently obtained from the same factory, making rebuilding or the introduction of new machinery unnecessary.

Firms behind with orders, or with more orders offered than can be taken, should therefore specially communicate with us.

Experience has proved that no one type of labour-aiding plant will meet the conditions of any two separate businesses.

Inquiry will cost you nothing—write to-day to

## Rownson, Drew & Clydesdale, Ltd.

**Labour-Aiding Engineers,**

Telephone—1070 CENTRAL (5 lines.) **225 UPPER THAMES ST., LONDON, E.C.4.** Telegrams—"Rownson, Central."

**104 West George Street, GLASGOW; and at NEW YORK.**

Telephone—Douglas 946. Telegrams—"Rownson, Glasgow."

Messrs. Rownson, Drew & Clydesdale, Ltd., issue through their Metal section, a fortnightly Metal Market Report and Price List covering Box Hooping, Wire Nails, &c., and also a 600-page Encyclopædia of Iron and Steel. Requests for this should be addressed: Metal Department.

A recent Sphagnol advertisement in one of the Medical journals resulted in more than one hundred inquiries from Nurses. Many of these stated that they were unable to obtain Sphagnol Soaps and Ointment in their town or neighbourhood.

Whenever the opportunity occurs we refer orders to a local Chemist, but we are anxious to do this in every case, and want, therefore, a Chemist in every town to stock Sphagnol.

We offer liberal terms, there is a good margin of profit, and we help you all we can by sending users to you.

Can we file your name and address as the supplier for your town?

*Particulars and Samples free on application to - - -*

**PEAT PRODUCTS (SPHAGNOL) LTD.**
**19 Queenhithe, Upper Thames St., London, E.C. 4.**

**THE SPA IN A SPOON.**

All the medicinal virtues of the finest Spa waters are concentrat.d in Harley's Three Salts. Your customers who use this unique saline are assured of freedom from all Uric Acid troubles. Already it has "caught on," and is extensively and continuously advertised in the leading weeklies of the United Kingdom. It is on the P.A.T.A. and

**Yields 50 % Profit to all Chemists**

It is packed in an attractive carton, in purple and orange. Showcards and advertising matter are sent free.

***Retail price, 9½d. each. Two for 1/6.***

TRADE TERMS:

**One dozen at 6/8 carriage 7d. extra.**
**Three dozen lots and upwards, at 6/1. Carriage paid**
Cash with order. Sen your order now to the Maker:

**HARLEY, MANUFACTURING CHEMIST PERTH, Scotland.**

SOTOL

# Effervescing Tablets

dissolve into a fragrant, antiseptic, neutralising "bath" for the mouth and throat which supplements the admirable execution of the tooth-brush—an implement which cannot reach the throat. SOTOL does. It is in the mouth and throat that numerous illnesses are started, and the most scrupulous care is necessary to keep them clean and free from germs. A SOTOL gargle effectually washes the throat as well as the mouth, expels harmful germs likely to cause trouble; and is the most approved method of thoroughly cleansing the mouth and throat. (SOTOL is not swallowed, but after the throat has been cleansed is "brought back" and ejected from the mouth.) Also equally effectual as a nasal douche.

*Samples and full particulars from the Manufacturers—*

The WESTERN DENTAL MFG. Co., Ltd.
74 WIGMORE STREET - LONDON, W. 1.

# EUCALYPTUS OIL
## (RECTIFIED).

| | |
|---|---|
| Eucalyptol Content ... ... ... | 70/80 % |
| Optical Rotation ... ... ... ... | 0 to 1 |
| Specific Gravity ... ... ... | ·919 to ·928 |

Absolutely Free from Phellandrene.

*Quotations by cable. Wholesale Trade only.*

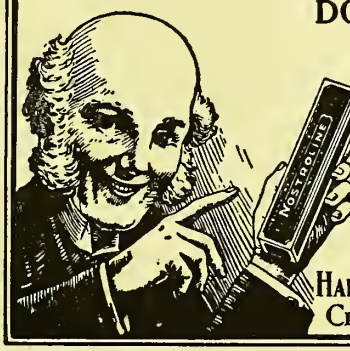
BURNSIDE & COMPANY
Eucalyptus Oil Distillers,
VICTORIA, AUSTRALIA.
New Postal Address— 439 Flinders Lane. Melbourne. Cables—"Burnside Company, Melbourne."

NOSTROLINE
TRADE MARK REGD.
N.379.

# FREE ADVERTISING
*in your local paper.*

SEND A POST CARD for particulars of our business building service, already helping nearly 1,400 progressive retailers. Still available free of charge for many other go-ahead chemists in Great Britain who believe in advertising and co-operation.

DO IT NOW.




"NOSTROLINE"
Prevents and Cures
COLD IN THE HEAD, NASAL CATARRH, HAY FEVER ETC.
Protects against Infection.
OVERSEAS CORRESPONDENCE INVITED
HAROLD E. MATTHEWS & Co.
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# WHOLESALE TRADE ONLY.

*Established 1900.*

DR. B. W. GATHERGOOD'S EXOR.
Terrington St. John, WISBECH

For GREEN EXTRACTS and DRIED HERBS of BELLADONNA, HENBANE, &c.

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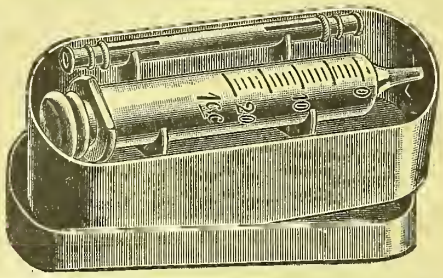
## ROYAL
## INFANT'S PRESERVATIVE

ON P.A.T.A. LIST.

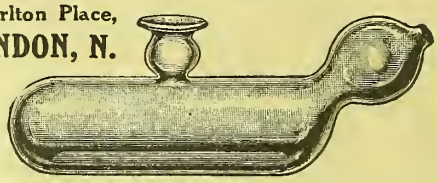
Prices and Terms on application to R. BARKER & SON, Ltd.
13 Wesley St., Grosvenor St., C.-on-M., MANCHESTER.

DOES NOT CONTAIN any SCHEDULED POISON.

We are making Lamp-blown Glassware, such as Ampoules, Hypodermic Tubes, &c., in England. Let us have your inquiries. You will find our prices competitive and our deliveries smart. Besides we also have varied stocks of Glass Bottles. *Send us your inquiries and ask for our Stock List.*



**JULES LANG & SON,**
Charlton Works, Charlton Place,
**ISLINGTON, LONDON, N.**



Sole Proprietor:
FERNAND. RENÉ LANG.

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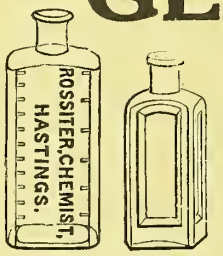
# GLASS BOTTLES WHOLESALE and EXPORT




**Medical Flats** Best Quality, Quinine Tinted.
Pale Tinted, 2nd Quality.
**Panels** ,, Pale Green.
**Vials, White Flint.** All sizes.
**Poisons.** Actinic Green, Blue or Amber.

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Telephone - HOP 3222.

## *SPECIAL OFFERS*

**RE-ENFORCED FINGERCOTS**
9/- per gross; worth 13/6.

**PLAT. IRID. HYPO. NEEDLES**
Prices on application.

**FEEDING - BOTTLE TEATS**
120 gross at 7/6, to clear.

**STEEL HYPO. NEEDLES**
All sizes and shapes.

**"ALL-METAL" AND METAL & GLASS HYPO. SYRINGES**
670 (1 cc.) dozen, to clear,
12/- per dozen (naked).

**WILFRED TURNER & CO., LTD.**
30 Craven St., Strand, London, W.C. 2.
Phone: 2221 Gerrard. Teleg.: "Advuloid London."

# RUBBER TEATS.
# SPECIAL OFFER!

Quantities exceeding 1 gross sent post free.

| | | |
|---|---|---|
| Black Bottle Teats ... | ... | @ 8/3 gross. |
| Transp. Bottle Teats ... | ... | @ 10/9 ,, |
| Transp. Soother Teats ... | ... | @ 3/9 ,, |

*Quality Guaranteed.*

Remittance with order, or send references to
**WEISS, BIHELLER & BROOKS, LTD.**
70/71 Chiswell Street, London, E.C.1

# HEALO
CURES ALL SKIN TROUBLES

The line which pays you to handle.
Over 1,000 Agents are doing well with HEALO.
Why shouldn't you?
The best, largest, and certainly most attractively got-up Ointment on the market.
Send for particulars of our terms, when we will enclose a free sample for inspection.
A good supply of window display matter is sent with all orders.

**MAURICE SMITH & CO.**
Manufacturing Chemists - KIDDERMINSTER.
(Proprietors: CUXSON, GERRARD & Co., Ltd.)

ALL . . .

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PHARMACEUTICAL and TECHNICAL,

WHOLESALE and EXPORT

*INQUIRIES SOLICITED.*

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92 Falcon Road, BATTERSEA, LONDON.

Telephone: BATTERSEA 1612.

Telegrams: "PICERNO, FALCON RD., BATTERSEA, LONDON."

## LANKSHEAR, WICKSTEAD & CO., LTD.

Botany Mill, WOODLEY.

Telegrams: "RACEMIC, WOODLEY." Telephone: 180 Hyde.

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## TARTARIC ACID B.P.

*Crystal and Powder.*

We are Buyers and Sellers of everything in

## DRUGS, CHEMICALS, SPECIALTIES.

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|---|---|
| ICHTHYOL SUBSTITUTE | SACCHARIN |
| SODIUM SALICYLATE | COUMARIN |
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| SOLOL | HEXAMINE |
| FORMALDEHYDE | CAFFEIN ALKALOID |
| BROMIDES | ACETPHENETIDIN |

All Industrial and Pharmaceutical Chemicals.

*Send us your Offerings and Inquiries.*

We are buying and selling representatives for foreign houses.

SAMSON ROSENBLATT,

89 FULTON STREET - New York City

## ACETIC ANHYDRIDE.

| | |
|---|---|
| Aspirin | Betanaphthol (Medicinal) |
| Phenacetin | Benzonaphthol |
| Paramidophenol | Paraphenylene-diamine |
| Saccharin | |

Photo Chemicals and Developers

## V. C. NORTH & CO.

*76 FINSBURY PAVEMENT, E.C.2.*

Phone: Wall 7781. Telegrams: "Hydracetol, Phone, London."

# INGRAM'S

## "Agrippa"

PATENT No. 17617

## BAND TEAT & VALVE

(BRITISH MADE BY BRITISH LABOUR)

"AGRIPPA" Band Teat (Black or Transparent Rubber).

*The Nearest Copy to the Natural Nipple*

(Note the patent band around the teat that grips tightly to the neck of the bottle.)

**The "AGRIPPA" Band Teat will fit any boat-shape feeding bottle, and will not slip off.**

¶ The Teat and Valve can be sterilised or cleansed by simply boiling in water, and the quality of rubber will not be deteriorated thereby.

The Patent Band Valve is devised according to the most up-to-date theories, and affords a means of regulating to perfection the flow of the milk food.

"AGRIPPA" Band Valve (Black or Transparent Rubber).

The "AGRIPPA" Patent Band Teat and Valve are protected by the P.A.T.A., and are supplied on the understanding they will not be re-sold to Chemists and Retail Trade at lower prices than quoted below.

| GOODS. | Minimum Wholesale Prices to Chemists. | Minimum Retail Prices. |
|---|---|---|
| "AGRIPPA" TEAT (Patent No. 17617) Black or Transparent | 2/6 per Doz. Net 27/6 per Grs. Net (for orders of 3 Doz. and over). | 3½d. EACH. |
| "AGRIPPA" VALVE (Patent No. 17617) Black or Transparent | 2/- per Doz. Net 22/- per Grs. Net (for orders of 3 Doz. and over). | 3d. EACH. |

OBTAINABLE FROM ALL WHOLESALE HOUSES.

*Patentees and Manufacturers—*

Ingram's LONDON

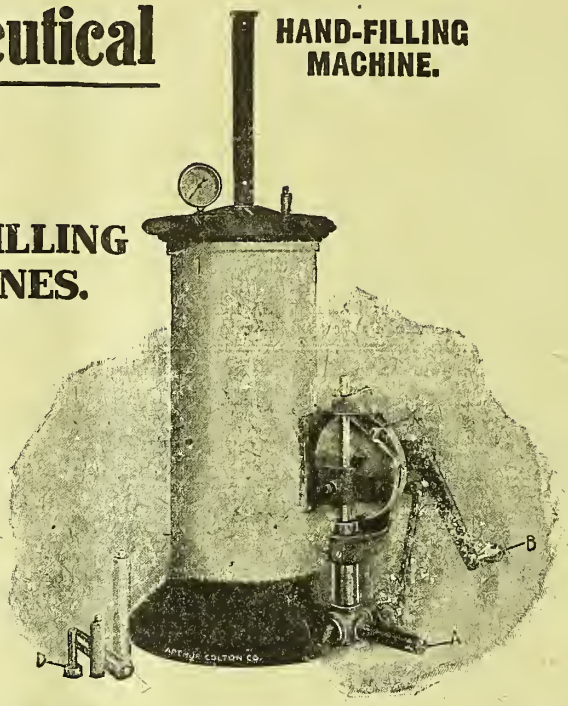
J. G. Ingram & Son, Ltd., Hackney Wick, London, E.

# Colton's Pharmaceutical Machinery.

**COLLAPSIBLE TUBE FILLING and CLOSING MACHINES.**

**TABLET AND PILL PLANT, etc.**

*LISTS FREE ON APPLICATION*



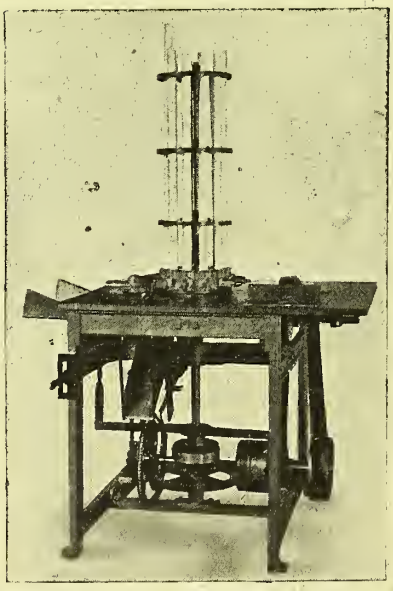

JOHN J. GRIFFIN & SONS, LTD., KINGSWAY, LONDON, W.C.

## SURGICAL BANDAGE MACHINERY

*Complete Plant for Making Bandages.*

CLOTH ROLLING & MEASURING MACHINE.
BANDAGE PAPERING MACHINE.
BANDAGE CUTTING MACHINE.

BANDAGE CUTTING MACHINE



CUTS 66 BANDAGES PER MINUTE

*Prices and Particulars on application to Patentees and Manufacturers*

THOMSON-KNOX COMPANY 8-12 Maxwell Street, GLASGOW.

## CHEMICAL PLANT

FOR NEARLY ALL INDUSTRIES IN

STEEL, CAST IRON, BRONZE AND SPECIAL ALLOYS

OR

# TANTIRON

ORGANIC & SYNTHETIC PRODUCTS,
SALICYLIC ACID & SULPHONATED,
CHLORINATED & ACETYLATED COMPOUNDS.
PLANTS FOR NITRIC, SULPHURIC & HYDROCHLORIC ACID.

LENNOX FOUNDRY CO., LTD.

GLENVILLE GROVE, NEW CROSS, LONDON, S.E.

Telegrams: "Equifex Dept., London." Telephone: New Cross 770.

THE PATENTED

# "Ronoleke" will satisfy your Customers

because, owing to its patented construction, it CANNOT LEAK under any circumstances. There is no washer to mislay or lose. The metal socket CANNOT COME OUT, even under unfair usage.

## *The Profits will satisfy YOU.*

| Size | Wholesale | Retail |
|---|---|---|
| 6×8 | 3/7 | 5/4 |
| 6×10 | 3/11 | 5/10 |
| 6×12 | 4/2 | 6/4 |
| 7×10 | 4/1 | 6/2 |
| 7×12 | 4/8 | 7/- |
| 8×10 | 4/5 | 6/8 |
| 8×12 | 5/- | 7/6 |
| 8×14 | 5/5 | 8/4 |
| 9×12 | 5/4 | 8/- |
| 10×12 | 5/8 | 8/6 |
| 10×14 | 6/5 | 9/8 |
| 10×16 | 6/10 | 10/4 |
| 12×16 | 7/4 | 11/8 |

Sold on a one-price-to-all basis. Your profits are protected against cutting—the "RONOLEKE" is on the P.A.T.A. List. We will advertise the "RONOLEKE" strongly next season in a select list of the popular weeklies. You will share in the profits created by this demand if you stock the "RONOLEKE" Guaranteed Hot Water Bottle. In case of difficulty, kindly send us the address of your Wholesale house, and we will supply you through them.

**Teats:—We make a speciality of these. Your inquiry will receive prompt attention.**

## Campbell, Achnach & Co., Ltd.

**59 Wallace St., S.S., Glasgow**

# HOT WATER BOTTLES

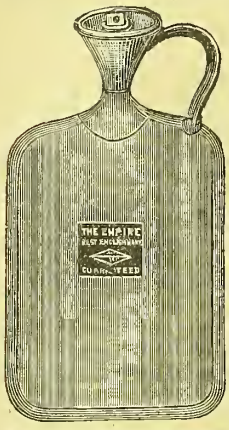



FIG. 957.—**Side Handle.**

## BRITISH MAKE.

## The "EMPIRE" Brand

***Made in Two Weights, but One Quality only—THE BEST. Guaranteed for 2 years.***

| Sizes | 6×8 | 6×10 | 6×12 | 8×10 | 8×12 | 8×14 | 10×12 | 10×14 |
|---|---|---|---|---|---|---|---|---|
| | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. |
| **Heavy** weight ... ... ... ... each | 3 2 | 3 5 | 3 8 | 3 11 | 4 3 | 4 10 | 5 2 | 5 9 |
| **Light** ,, ... ... ... ... ,, | 3 1 | 3 4 | 3 7 | 3 10 | 4 1 | 4 8 | 4 11 | 5 6 |
| **Covers,** scarlet or grey plush ,, | 0 11 | 1 0 | 1 1 | 1 2 | 1 4 | 1 6 | 1 8 | 1 10 |

5% discount allowed for prompt cash off above prices.

**We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber and Vulcanite Goods.**

***ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.***

## BURGE, WARREN & RIDGLEY, LTD.,

**91 & 92 GREAT SAFFRON HILL, LONDON, E.C.1.**

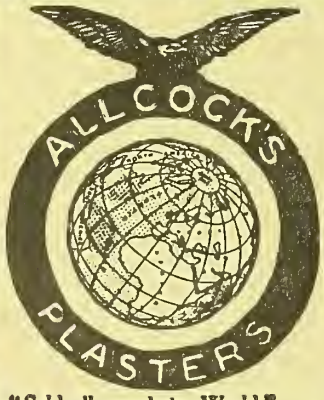
ESTABLISHED 1847.

# Allcock's

## PLASTERS

A REMEDY OF 60 YEARS' STANDING.

**Allcock's Plasters**
**Allcock's Corn and Bunion Plasters**
**Brandreth's Pills**
} ***The Three Reliables.***




Prices and Terms on application to

**ALLCOCK MANUFACTURING COMPANY**
**22 Hamilton Sq., Birkenhead.**

"Sold all round the World."

*WHOLESALE ONLY.* MANUFACTURERS OF **Established 1901.**

## Surgical Dressings,

**Absorbent Lints, Bandages, Cotton Wools, Gauzes, &c.**

Samples and prices on application.

**VERNON & CO., Ltd.,** Penwortham Mills **PRESTON.**
Also 9 Fore Street Avenue, LONDON, E.C.
*Branch Works:* Waterfold Mills, Heap Bridge, BURY.

## ASBESTOS FILTER FIBRE

Specially prepared for the filtration of Water, Beer, Spirits, Vinegar, Wines, Gelatine, Pharmaceutical Products and Essences.

GIVES A CLEAR AND SPARKLING FILTRATE AT A MINIMUM COST.

**PURE, NEUTRAL AND INSOLUBLE.**

*Write for Samples and Prices to*

**TURNER BROTHERS ASBESTOS Co., Ltd.,**
ROCHDALE, England.

# FIRST AID
## OUTFITS.

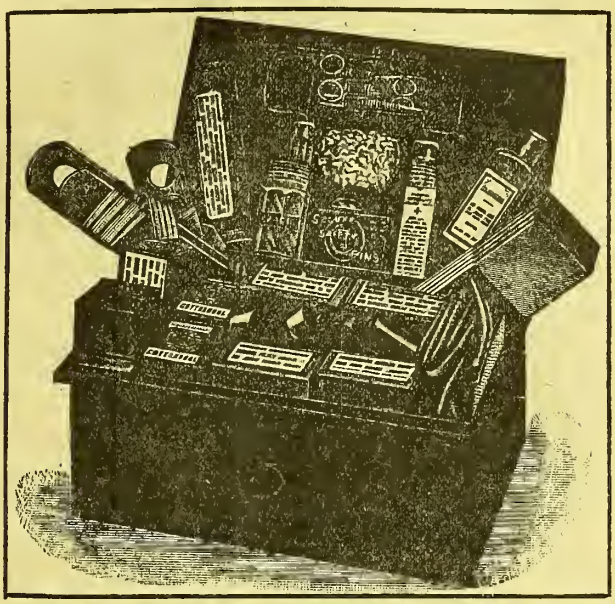
**Quick Sales will be experienced by the display of "Fastnet" handsomely-packed Outfits, costing:—**

No. 2, 4/6

No. 3, 6/6

No. 4, 12/-

NETT.



No. 5, 17/6

No. 6, 22/-

No. 7, 45/-

NETT.

JOHN TIMPSON & CO.,
Limited,
104-106, Golden Lane,
LONDON, E.C.1.

Telephone:
CITY 6910 (2 Lines).
Telegrams:
"POROUS, LONDON."

# GLASS BOTTLES & GLASSWARE
## OF ALL DESCRIPTIONS.

Buyers in India, Australia, South Africa, and the Far East should send samples (two of each) and quantities required for quotations to

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*Cable Address: "FRANKLIN KOBE."*

FULLY ILLUSTRATED CATALOGUE OF SURGICAL INSTRUMENTS SENT POST FREE ON APPLICATION.

# J. H. HAYWOOD, Ltd.

Surgical and Athletic Appliance Manufacturers,
Castle Gate, NOTTINGHAM.

## SPECIALITIES FOR WINTER.

SURGICAL ELASTIC HOSIERY, TRUSSES, SUSPENDERS, BRACES.

LADIES' & GENTLEMEN'S BELTS for SUPPORT and WARMTH made in Fleecy, Felt, and Chamois, etc.

CHEST PROTECTORS and SLEEPING SOCKS, ELASTIC and LEATHER WRISTLETS, ARM PIECES, ELBOW PIECES and KNEE CAPS for Football, Golf and Hockey.

DRUGGISTS' SUNDRIES, INDIA RUBBER HOT WATER BOTTLES and COVERS, ELASTIC WEB BANDAGES, all lengths, widths and qualities.

LOWEST QUOTATIONS AND SAMPLES ON REQUEST.

# LINES for 1918.

# "L" Brand LYSOL.

| | M.R.P. |
|---|---|
| MARSHALL'S LYSOL TOILET SOAP | 4½d. Tablets |
| MARSHALL'S LYSOL SURGICAL SOAP | 6d. ,, |
| MARSHALL'S LYSOL BATH SOAP | 9d. ,, |
| MARSHALL'S SHAVING STICKS | 6d. & 1/- sizes |
| LYSOL SHAMPOO POWDERS (8 in carton) | 1/- cartons |
| LYSOLINE HAIR TONIC (one size only) | 1/6 per bottle |
| LYSOLAN OINTMENT (one size only) | 1/3 per pot |
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